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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8731	21699	35124	1.42	7.0E-21	AJ277557.1	NT	Homo sapiens dNT-2 gene for mitochondrial 5(3')-deoxyribonucleohydase (dNT-2 gene), exons 1-5
9024	21950	35411	11.21	7.0E-21	D14718.1	NT	Human chromosomal protein HMGT related gene
10472	23394	36891	0.82	7.0E-21	AW95922.1	EST_HUMAN	RC3-C10301-271199-031-C03 C10301 Homo sapiens cDNA
11054	24017	37540	1.69	7.0E-21	AA723404.1	EST_HUMAN	2473003.s1 Scores_fetal_hemat_NHH19W Homo sapiens cDNA clone IMAGE:369881 3' similar to gb:U14338 VITAMIN K-DEPENDENT PROTEIN S PRECURSOR (HUMAN) contains THR13 OFFR repetitive element;
11599	24537	38094	1.67	7.0E-21	77069693	NT	Homo sapiens PTD013 protein (PTD013), mRNA
4130	17163	30052	1.68	6.0E-21	BE408611.1	EST_HUMAN	601304125F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638310 5'
9481	22455	30302	0.59	6.0E-21	BE162737.1	EST_HUMAN	PM1-HT0454.093100-302109 HT0454 Homo sapiens cDNA
4390	17418	30793	3.16	5.0E-21	BE908639.1	EST_HUMAN	601949871F1 NIH_MGC_74 Homo sapiens cDNA clone IMAGE:3933880 5'
4839	17856	30793	6.18	5.0E-21	4885474	NT	Homo sapiens melanoma antigen, family C. 1 (MAGEC1), mRNA
6927	20151		0.92	5.0E-21	AW440864.1	EST_HUMAN	he05e10.x1 NCI_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2918154 3'
7213	20236	33570	0.96	5.0E-21	BE856505.1	EST_HUMAN	7f83d11.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:3303573 3' similar to contains OFFR11 OFFR repetitive element;
10639	23859	37374	0.43	5.0E-21	Q91690	SWISSPROT	ZINC FINGER PROTEIN GLI1 (GLI-1)
10939	23859	37375	0.43	5.0E-21	Q91690	SWISSPROT	ZINC FINGER PROTEIN GLI1 (GLI-1)
12255	25081		5.38	5.0E-21	AA393574.1	EST_HUMAN	z172204.71 Scores_testes_NHT Homo sapiens cDNA clone IMAGE:727878 5'
1748	14777	27762	1.95	4.0E-21	AA970713.1	EST_HUMAN	o088408.s1 NCI_CGAP_Kids Homo sapiens cDNA clone IMAGE:1573994 3' similar to TRC16530 Q16530 PMS3 mRNA contains OFFR11 OFFR repetitive element;
7055	20077	30366	3.35	4.0E-21	AB019576.1	NT	Rattus norvegicus mRNA for TIM, complete cds
10139	23065	36541	0.59	4.0E-21	U91328.1	NT	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis (HLA-H) gene, RoRet gene, and sodium phosphate transporter (NPT3) gene, complete cds
1854	14880	27876	1.05	3.0E-21	AA218991.1	EST_HUMAN	z015406.s1 Sratogen fetal retina 937202 Homo sapiens cDNA clone IMAGE:932771 3'
2282	15295	28319	1.48	3.0E-21	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
3096	16153	29066	4.17	3.0E-21	AJ007973.1	NT	Homo sapiens LGMD2B gene
5577	18673	31636	0.93	3.0E-21	AJ277557.1	NT	Homo sapiens dNT-2 gene for mitochondrial 5(3')-deoxyribonucleohydase (dNT-2 gene), exons 1-5
5577	18673	31637	0.93	3.0E-21	AJ277557.1	NT	Homo sapiens dNT-2 gene for mitochondrial 5(3')-deoxyribonucleohydase (dNT-2 gene), exons 1-5
5828	19818		0.74	3.0E-21	AV661044.1	EST_HUMAN	AY081044 GLC Homo sapiens cDNA clone GLC0410 3'
6303	19374		1.89	3.0E-21	BF184739.1	EST_HUMAN	60184465F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4064945 5'
7271	20066	33306	7.18	3.0E-21	BF361093.1	EST_HUMAN	RC1-Q10083-100800-019-g08 Q10083 Homo sapiens cDNA

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10051	22078	36445	0.77	3.0E-21	AW697760.1	EST_HUMAN	GM1-NN0063-280400-203-n08 NN0063 Homo sapiens cDNA
147	13250		28.45	2.0E-21	BE163247.1	EST_HUMAN	QV3-HT0468-170200-090-g12 HT0468 Homo sapiens cDNA
1219	14257		3.29	2.0E-21	BE064410.1	EST_HUMAN	RC4-BT0311-141199-011-n08 BT0311 Homo sapiens cDNA
2646	15543	28667	2.26	2.0E-21	Q28993	SWISSPROT	ZONADHESIN PRECURSOR
2646	15543	28668	2.26	2.0E-21	Q28993	SWISSPROT	ZONADHESIN PRECURSOR
5561	18658	31604	1.54	2.0E-21	A1824592.1	EST_HUMAN	h33003.x1 NCL CGAP_Part1 Homo sapiens cDNA clone IMAGE:2230109 3' similar to TR:Q98854 Q98854
5556	18752	31918	0.81	2.0E-21	AA027211.1	EST_HUMAN	HYPOPHYSICAL 51.1 KD PROTEIN
5556	18752	31919	0.81	2.0E-21	AA027211.1	EST_HUMAN	ze97a12.1 Scores_fetal heart NBHH19W Homo sapiens cDNA clone IMAGE:366910 5'
6149	19224	32454	0.61	2.0E-21	W44493.1	EST_HUMAN	ze97a12.1 Scores_fetal heart NBHH19W Homo sapiens cDNA clone IMAGE:366910 5'
8615	21583	34959	0.48	2.0E-21	AJ010770.1	NT	z228102.1 Scores_senescent fibroblasts NBHSF Homo sapiens cDNA clone IMAGE:323667 5'
8706	21674	35059	0.64	2.0E-21	BE141785.1	EST_HUMAN	Homo sapiens hypoxan gene, exons 1-50
9175	22141	35567	3.96	2.0E-21	AL136778.1	EST_HUMAN	QV0-HT0103-091189-050-g11 HT0103 Homo sapiens cDNA
11647	24584	38152	1.72	2.0E-21	BE973629.1	EST_HUMAN	AUT36779 PLAGE1 Homo sapiens cDNA clone PLACE1095052 5'
11647	24584	38153	1.72	2.0E-21	BE973629.1	EST_HUMAN	601800639F1 NIH MGC_83 Homo sapiens cDNA clone IMAGE:3951008 5'
12560	26270		17.51	2.0E-21	AF176515.1	NT	601800639F1 NIH MGC_83 Homo sapiens cDNA clone IMAGE:3951008 5'
1260	14295	27259	2.06	1.0E-21	AA557657.1	EST_HUMAN	Homo sapiens putative B-hydroxyguanine DNA glycosylase gene, complete cds
1402	14435		7.17	1.0E-21	A1801284.1	EST_HUMAN	h14604.x1 NCL CGAP_P14 Homo sapiens cDNA clone IMAGE:1043718 similar to contains MER28 b2
6534	19632		2.6	1.0E-21	AL079752.1	EST_HUMAN	ar88d12.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2152343 3'
7398	20356	33719	4.83	1.0E-21	A1223104.1	EST_HUMAN	DKFZp434i0830_r1 434 (synonym: hias3) Homo sapiens cDNA clone DKFZp434i0830 5'
10603	23525	37021	0.46	1.0E-21	AL163203.2	NT	PROTEIN (HUMAN)
10603	23525	37022	0.46	1.0E-21	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
10949	23869		1.67	1.0E-21	5730036	NT	Homo sapiens chromosome 21 segment HS21C003
12632	25514		1.32	1.0E-21	AF046133.1	NT	Homo sapiens SET domain and nuclear transposase fusion gene (SETMAR) mRNA
4439	17485	30355	2.03	9.0E-22	A1702438.1	EST_HUMAN	Homo sapiens chromosome Xp22 410-8
8951	21917	35341	1.29	9.0E-22	AL163201.2	NT	tz24603.x1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2266204 3' similar to TR:Q15408 Q15408
8951	21917	35342	1.29	9.0E-22	AL163201.2	NT	NEUTRAL PROTEINASE LARGE SUBUNIT
11144	24104	37631	3.13	9.0E-22	AV761874.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C001
949	14002		7.03	8.0E-22	BE14748.1	EST_HUMAN	AV761874 MDS Homo sapiens cDNA clone MOSC:CG05 5'
8228	21197		3.82	8.0E-22	AA046502.1	EST_HUMAN	CM0-HT0179-281089-076-n03 HT0179 Homo sapiens cDNA
666	13731	26656	6.78	7.0E-22	AL163246.2	NT	z67a06.r1 Scores_pregnant uterus NBHFU Homo sapiens cDNA clone IMAGE:487858 5'

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4312	17341	30221	2.36	7.0E-22	Q01838	SWISSPROT	ALPHA-2-MACROGLOBULIN PRECURSOR (ALPHA2M)
5078	18086	30966	0.97	7.0E-22	AB008681.1	NT	Homo sapiens gene for activin receptor type IIB, complete cds
9038	22004	30966	2.46	7.0E-22	AF151054.1	NT	Homo sapiens HSPC220 mRNA, complete cds
9184	22150	33578	3.86	7.0E-22	M78590.1	EST_HUMAN	EST100738 Fetal brain, Stratagene (cd8863206) Homo sapiens cDNA clone HFBG07
9981	22888	36349	1.92	7.0E-22	AF009660.1	NT	Homo sapiens T cell receptor beta locus, TORBY75342 to TORBY1282 region
8594	21552		1.88	6.0E-22	AW029123.1	EST_HUMAN	wad5g07.x1 NCI CGAP Gas4 Homo sapiens cDNA clone IMAGE:2642812 3'
5285	18291		0.72	5.0E-22	D14547.1	NT	HUMAN DNA, SINE repetitive element
8668	19723	32908	3.05	5.0E-22	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21G103
10682	23604	37098	7.82	5.0E-22	U08622.1	NT	Human dystrophin (DMD) gene, exons 7, 8 and 9, end partial cds
12775	25413		2.76	5.0E-22	BF476811.1	EST_HUMAN	naaz7506.x1 NCI CGAP P128 Homo sapiens cDNA clone IMAGE:3258808 3' similar to contains Alu repetitive element
3650	16893		0.83	4.0E-22	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
8442	21411	34824	0.42	4.0E-22	AV703223	EST_HUMAN	AV703223 AD3 Homo sapiens cDNA clone ADBAU12 5'
8758	26008		3.36	4.0E-22	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21G202
11077	24039	37563	2.15	4.0E-22	BF218030.1	EST_HUMAN	16018828T3F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4095434 5'
12938	25518		2.74	4.0E-22	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21G009
990	14013		1.06	3.0E-22	AJ469670.1	EST_HUMAN	Im14H10.x1 NCI CGAP Cor14 Homo sapiens cDNA clone IMAGE:2156611 3' similar to gb.L19593 HIGH AFFINITY INTERLEUKIN-8 RECEPTOR B (HUMAN); contains L1 L1 repetitive element;
2576	15577	28596	2.15	3.0E-22	AJ650038.1	EST_HUMAN	W66804.x1 NCI CGAP Bn25 Homo sapiens cDNA clone IMAGE:2429839 3' similar to SW:RL21_HUMAN
3686	16729		1.35	3.0E-22	D14718.1	NT	P46778 G6S RIBOSOMAL PROTEIN L21.1
4838	17855	30752	2.88	3.0E-22	AJ090125.1	EST_HUMAN	Human chromosomal protein HMGT related gene
8572	21540		1.21	3.0E-22	BE156613.1	EST_HUMAN	qk28c07.x1 Soares_pregnat. uterus, NN4-FPU Homo sapiens cDNA clone IMAGE:1697580 3' similar to contains MER12.12 MER12 repetitive element;
8577	21545	34984	3.4	3.0E-22	BE086841.1	EST_HUMAN	QV6-HT0358-030200-089-12 HT0358 Homo sapiens cDNA
8703	21671	35093	0.77	3.0E-22	X60950.1	NT	RCS-BT10707-150300-021-H10 BT10707 Homo sapiens cDNA
8703	21671	35094	0.77	3.0E-22	X60950.1	NT	R. rattus RY265 mRNA for a potential ligand-binding protein
1970	14991		4.79	2.0E-22	N24942.1	EST_HUMAN	R. rattus RY265 mRNA for a potential ligand-binding protein
2528	15531	28552	1.82	2.0E-22	P24916	SWISSPROT	X73405.s1 Soares melanocyte 2N6-HM Homo sapiens cDNA clone IMAGE:267359 3'
3431	16779	29398	4.76	2.0E-22	AW817794.1	EST_HUMAN	IMMEDIATE EARLY GENE 13 PROTEIN PRECURSOR
4253	17282	30193	1.26	2.0E-22	AW817794.1	EST_HUMAN	Homo sapiens protein kinase, AMP-activated, gamma 3 non-catalytic subunit (PRKAG3), mRNA
5951	25648	32232	1.34	2.0E-22	W39456.1	EST_HUMAN	PMT-ST0282-261199-001-412 ST0282 Homo sapiens cDNA
6301	19372	32611	3.57	2.0E-22	BF092116.1	EST_HUMAN	z2-20101.f1 Soares, senescent, fibroblasts, NRHSF Homo sapiens cDNA clone IMAGE:322873 5' similar to gb:X72308 MONOCYTE CHEMOTACTIC PROTEIN 3 PRECURSOR (HUMAN);

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10061	22988	36456	1.61	2.0E-22	A127822.1	EST_HUMAN	q16008.x1 Soares_NHMP-U_S1 Homo sapiens cDNA clone IMAGE:1878298 3' similar to contains
10156	23081	36556	0.65	2.0E-22	AA715315.1	EST_HUMAN	MER28.13 MER28 repetitive element;
10156	23081	36557	0.65	2.0E-22	AA715315.1	EST_HUMAN	nc04111.x1 NC1 CGAP_P122 Homo sapiens cDNA clone IMAGE:1219289 3'
10991	23911	37428	0.55	2.0E-22	R15209.1	EST_HUMAN	nc04111.x1 NC1 CGAP_P122 Homo sapiens cDNA clone IMAGE:1219289 3'
12054	24927	38525	1.58	2.0E-22	AW418960.1	EST_HUMAN	y68038.F1 Soares infant brain N165 Homo sapiens cDNA clone IMAGE:28740 5'
12139	23504	31705	1.92	2.0E-22	AL163280.2	NT	nc04111.x1 NC1 CGAP_P122 Homo sapiens cDNA clone IMAGE:28740 5'
1896	14921	27917	1.76	1.0E-22	AW86517.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C080
2588	15589	28606	1.82	1.0E-22	U50871.1	NT	PMA-SN0020-010400-009-H02 SN0020 Homo sapiens cDNA
3422	16470	28390	1.49	1.0E-22	D14547.1	NT	Human familial Alzheimer's disease (STM2) gene, complete cds
5295	18300		1.5	1.0E-22	AF003528.1	NT	Human DNA, SINE repetitive element
8015	20953	34347	0.95	1.0E-22	BE094897.1	EST_HUMAN	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
10918	23888	37394	0.8	1.0E-22	A1365435.1	EST_HUMAN	MRC-BT0659-220200-002-H07 BT0659 Homo sapiens cDNA
10918	23888	37395	0.8	1.0E-22	A1365435.1	EST_HUMAN	q209607.x1 NC1 CGAP_G111 Homo sapiens cDNA clone IMAGE:2020981 3' similar to contains MER28.b2
12991	25531		9.05	9.0E-23	AW802801.1	EST_HUMAN	MER28 repetitive element;
3585	16620	29548	0.73	8.0E-23	AF198349.1	NT	IL2-UM0076-070400-081-F11 UM0076 Homo sapiens cDNA
3322	16373		1.96	7.0E-23	AF647246.1	EST_HUMAN	Gallus gallus Dactyl protein (Dact2) mRNA, complete cds
11376	24323	37852	4.11	7.0E-23	5031952	NT	AV647246 GLC Homo sapiens cDNA clone GLCAW07.3'
3447	16494		1.68	6.0E-23	AF196333.1	NT	Homo sapiens Nc658 (D. melanogaster)-like protein (N0158L) mRNA
4297	17326	30206	1.13	6.0E-23	AL163249.2	NT	Rattus norvegicus RIM1B (Rim1B) mRNA, complete cds
12281	25099	31834	4.84	6.0E-23	AF224699.1	NT	Homo sapiens chromosome 21 segment HS21C049
12281	25099	31836	4.64	6.0E-23	AF224699.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3
12480	25228	31795	3.03	6.0E-23	A1209130.1	EST_HUMAN	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3
5519	18618	31552	4	5.0E-23	U82871.2	NT	(UBE2D3) genes, complete cds
6367	25659	32679	3.55	5.0E-23	AF179818.1	NT	q656d33.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1839460 3' similar to
7671	25659	32679	3.25	5.0E-23	AF179818.1	NT	SW_MV10_MOUSE_P23249 PROTEIN MOV-10;
							Homo sapiens chromosome Xq28 melanoma antigen family A2a (MAGEA2A), melanoma antigen family A12 (MAGEA12), melanoma antigen family A2b (MAGEA2B), melanoma antigen family A3 (MAGEA3), calretinin (CALT), NAD(P)H dehydrogenase-like protein (NSDHL), and Lp
							Pongo pygmaeus olfactory receptor (PPY116) gene, partial cds
							Pongo pygmaeus olfactory receptor (PPY116) gene, partial cds

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6580	19640	32606	1.07	3.0E-23	AL183227.2	NT	Homo sapiens chromosome 21 segment HS21C027
6590	19640	32607	1.07	3.0E-23	AL183227.2	NT	Homo sapiens chromosome 21 segment HS21C027
8171	21141	34547	4.18	3.0E-23	AA130165.1	EST_HUMAN	zfs5g09.r1 Soares, pregnant uterus, NbiHPU Homo sapiens cDNA clone IMAGE:503988 5' similar to contains MER29.12 MER29 repetitive element ;
9604	22608	30558	2.74	3.0E-23	Z70864.1	NT	Human endogenous retroviral element HC2
9804	22608	30559	2.74	3.0E-23	Z70864.1	NT	Human endogenous retroviral element HC2
10860	23602	26657	1.27	3.0E-23	AW897927.1	EST_HUMAN	RC3-NN0086-07040-Q11-ROT NN0086 Homo sapiens cDNA
987	13732	375	3.75	2.0E-23	AJ289880.1	NT	Homo sapiens KIAA0851 gene (partial), XT3 gene and LZTFL1 gene
1145	19817	19817	3.02	2.0E-23	M65270.1	NT	Human matrix Gla protein (MGP) gene, complete cds
2807	15796	28817	2.08	2.0E-23	P22105	SWISSPROT	TENASCIN-X PRECURSOR (TN-X) (HEXABRACHION-LIKE)
2807	15796	28818	2.08	2.0E-23	P22105	SWISSPROT	TENASCIN-X PRECURSOR (TN-X) (HEXABRACHION-LIKE)
3384	16433		1.5	2.0E-23	AI201458.1	EST_HUMAN	q573r11.x1 NC1 CGAP_P128 Homo sapiens cDNA clone IMAGE:1943757 3' similar to TR:Q13537 Q13537
3729	18771		2.97	2.0E-23	BE165980.1	EST_HUMAN	MER37 TRANSDUCIBLE ELEMENT, COMPLETE CONSENSUS SEQUENCE. ;
4001	17040	29947	2.59	2.0E-23	H59931.1	EST_HUMAN	MR3-HT0487-150200-113-g01 HT0487 Homo sapiens cDNA
4001	17040	29948	2.59	2.0E-23	H59931.1	EST_HUMAN	MR3-HT0487-150200-113-g01 HT0487 Homo sapiens cDNA
5062	18072	30862	8.49	2.0E-23	D14647.1	NT	Human DNA, SINE repetitive element
8205	21175		4.26	2.0E-23	AF280107.1	NT	Homo sapiens cytochrome P450 polypeptide 43 (CYP3A43) gene, partial cds; cytochrome P450 polypeptide 4 (CYP3A4) and cytochrome P450 polypeptide 7 (CYP3A7) genes, complete cds; and cytochrome P450 polypeptide 5 (CYP3A5) gene, partial cds
9195	22161	35589	1.12	2.0E-23	AL183303.2	NT	Homo sapiens chromosome 21 segment HS21C103
12682	25066		3.91	2.0E-23	M62656.1	NT	Human alcohol dehydrogenase gamma subunit (ADH3) gene, exon 1
12787	25419		2.55	2.0E-23	AF009660.1	NT	Homo sapiens T cell receptor beta locus, TCRCB/7S3A2 to TORBY12S2 region
4558	17581	30472	1.44	1.0E-23	AL183252.2	NT	Homo sapiens chromosome 21 segment HS21C052
4789	17816		4.76	1.0E-23	AL183210.2	NT	Homo sapiens chromosome 21 segment HS21C010
6882	18834		3.11	1.0E-23	BE376471.1	EST_HUMAN	601226455F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608663 5'
8699	21687	35060	4.73	1.0E-23	AA448097.1	EST_HUMAN	zwa2c06.r1 Soares, testis, NHT Homo sapiens cDNA clone IMAGE:792958 5' similar to contains PTRS.12 PTRS repetitive element ;
554	13624		3.05	9.0E-24	AA66321.3	EST_HUMAN	ab75a08.1 Stragene fetal retina 937202 Homo sapiens cDNA clone IMAGE:852758 3' similar to TR: E19822 CA PROTEIN. ;
4678	17699	30586	1.15	8.0E-24	P23269	SWISSPROT	OLFACTORY RECEPTOR-LIKE PROTEIN B3
4678	17699	30587	1.15	8.0E-24	P23269	SWISSPROT	OLFACTORY RECEPTOR-LIKE PROTEIN B3
6591	19651	32822	1.34	8.0E-24	11422027	NT	Homo sapiens capping protein (actin filament) muscle Z-line, alpha 2 (CAPZA2), mRNA
8155	21093	34492	0.77	8.0E-24	11422027	NT	Homo sapiens capping protein (actin filament) muscle Z-line, alpha 2 (CAPZA2), mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3886	16926		1.36	7.0E-24	AW937954.1	EST_HUMAN	QV0-D70047-70200-122-a08 D70047 Homo sapiens cDNA
707	13789		2.31	6.0E-24	AB001421.1	NT	Maccia fusca mRNA for Testis-Specific Protein Y (TSPY), complete cds
839	13896	28851	15.66	6.0E-24	AL163249.2	NT	Homo sapiens chromosome 21 segment HS21C048
3894	17034	28942	8.31	5.0E-24	AJ228043.1	NT	Homo sapiens 659 kb contig between AML1 and CBR1 on chromosome 21q22, segment 3/3
8034	20971	34365	1.34	5.0E-24	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
6039	18121	32325	3.63	4.0E-24	AA594178.1	EST_HUMAN	m31h05.s1 NCI CGAP_Gast1 Homo sapiens cDNA clone IMAGE:1085529 3' similar to SW-POL_MLVK P31785 POL_POLYPROTEIN.
9020	21995	35415	1.26	4.0E-24	AW813711.1	EST_HUMAN	RC3-ST0187-130100-014.f08 S70197 Homo sapiens cDNA
11514	24455	38005	1.52	4.0E-24	BE544822.1	EST_HUMAN	601078812F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3484468 5'
12644	25328	31760	5.56	4.0E-24	AB026016.1	NT	Homo sapiens mRNA for KIAA1063 protein, partial cds
12807	25713	31810	9.82	4.0E-24	M20707.1	NT	Human kappa-immunoglobulin germline pseudogene (Chr22.4) variable region (subgroup V kappa II)
12876	25509	31708	1.88	4.0E-24	11418318	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
7285	20092	33368	0.6	3.0E-24	U96061.1	NT	Human germline T-cell receptor beta chain TORBV17S1A1T, TORBV2S1, TORBV10S1P, TORBV28S1P, TORBV14S1, TORBV18S1, TORBV11S1A1T, HVB relic, TORBV28S1P, TORBV34S1, TORBV14S1, TORBV3S1, TORBV4S1A1T, TRY4, TRY5, TRY6, TRY7, TRY8, TORBD1, TORBU1S1, TORBU1S2, TORBU1S2>
7285	20092	33369	0.6	3.0E-24	U96061.1	NT	Human germline T-cell receptor beta chain TORBV17S1A1T, TORBV2S1, TORBV10S1P, TORBV28S1P, TORBV18S1P, TORBV11S1A1T, HVB relic, TORBV28S1P, TORBV34S1, TORBV14S1, TORBV3S1, TORBV4S1A1T, TRY4, TRY5, TRY6, TRY7, TRY8, TORBD1, TORBU1S1, TORBU1S2>
8768	21733		2.89	3.0E-24	AW614871.1	EST_HUMAN	h86sc08.x1 NCI CGAP_GU11 Homo sapiens cDNA clone IMAGE:2867850 3' similar to contains MER29 b2 MER29 repetitive element.
8820	21789		1.25	3.0E-24	AW962078.1	EST_HUMAN	EST374149 IMAGE rescues, MAGG Homo sapiens cDNA
8820	22668	36128	4.11	3.0E-24	AL163252.2	NT	Homo sapiens chromosome 21 segment HS21C052
12715	25369	31772	2.16	3.0E-24	BF127762.1	EST_HUMAN	601810449F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4053366 5'
2354	15363	28385	2.8	2.0E-24	AA181536.1	EST_HUMAN	zp111069.17 Striatagene fetal (refa 837202 Homo sapiens cDNA clone IMAGE:609181 5'
3912	19852		0.89	2.0E-24	AW898189.1	EST_HUMAN	RC3-NN0068-030500-021-h33 NN0068 Homo sapiens cDNA
7593	28001		0.61	2.0E-24	AL153209.2	NT	Homo sapiens chromosome 21 segment HS21C069
7715	28072	34039	1.12	2.0E-24	AF086824.1	NT	Mus musculus nuclear-interacting citron kinase (CIN) mRNA, complete cds
7720	20877	34042	0.55	2.0E-24	AJ003536.1	EST_HUMAN	AJ003538 Selected chromosome 21 cDNA library Homo sapiens cDNA clone MP1p12-5HT3
9092	22058	35484	3.09	2.0E-24	AL118158.1	EST_HUMAN	DKFZp761L1712.1 781 (ecronym: hamy2) Homo sapiens cDNA clone DKFZp761L1712 5'

Table 4

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9130	22096		0.96	2.0E-24	H69214.1	EST_HUMAN	y92b09.r1 Soares fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:212729 5' similar to contains MER28 repetitive element;
10213	23158	36626	0.98	2.0E-24	A1521759.1	EST_HUMAN	h77a09.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2138008 3'
10213	23158	36627	0.98	2.0E-24	A1521759.1	EST_HUMAN	h77a09.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2138008 3'
12568	25947		10.03	2.0E-24	M28877.1	NT	Human O ² family dispersed repeat element
1705	14755	27717	2.63	1.0E-24	Z706340	NT	Homo sapiens CGI-127 protein (LOC51646), mRNA
2081	15677		1.52	1.0E-24	AW820194.1	EST_HUMAN	QV0-S10294-100400-185-c10 S10294 Homo sapiens cDNA
3033	16091	28009	0.78	1.0E-24	D89423.1	NT	Mus musculus mRNA for HGT keratin, partial cds
4296	17328		2	1.0E-24	AF143313.1	NT	Homo sapiens PTEN (PTEN) gene, exon 2
6541	19603	32895	0.68	1.0E-24	Z7106336	NT	Mus musculus keratin complex-1, gene C29 (Krt-c29), mRNA
7796	20748	34123	3.99	1.0E-24	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
8002	20941	34334	0.68	1.0E-24	BE144526.1	EST_HUMAN	MRO-HT10168-271199-2015-008 H10168 Homo sapiens cDNA
8276	21245	34656	1.81	1.0E-24	AW801164.1	EST_HUMAN	CMA-NN1010-130300-281.407 NN1010 Homo sapiens cDNA
8625	19583	32951	0.52	8.0E-25	11420402	NT	Homo sapiens helicase-like protein NHL (LOC51750), mRNA
12008	24885	38480	1.53	9.0E-25	Z7706707	NT	Homo sapiens putative secreted protein (SIGT1), mRNA
5031	18045	30927	2.85	7.0E-25	A4483944.1	EST_HUMAN	nes2e10.s1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:911754 similar to contains MER1.b2 MER1 repetitive element;
8561	21526	34948	6.63	7.0E-25	AA468546.1	EST_HUMAN	ms06a09.s1 NCI CGAP_C33 Homo sapiens cDNA clone IMAGE:880408 3' similar to contains THR b2 THR repetitive element;
12012	24889	39486	3.24	7.0E-25	AA583540.1	EST_HUMAN	nt25-h06.s1 NCI CGAP_P11 Homo sapiens cDNA clone IMAGE:914843 similar to SW_R14A_YEAST P36105 PROBABLE 60S RIBOSOMAL PROTEIN L14EA;
7184	18415		4.41	6.0E-25	W87623.1	EST_HUMAN	Z165h07.r1 Soares fetal liver spleen 1NfLS_S1 Homo sapiens cDNA clone IMAGE:116989 5'
7892	20931	34326	10.26	8.0E-25	Z305360	NT	Mus musculus otogelin (Otog), mRNA
1659	14691	27667	1.67	5.0E-25	AW950271.1	EST_HUMAN	IL3-CT0219-16169-031.D04 CT0219 Homo sapiens cDNA au4901.s1 NCI CGAP_B12 Homo sapiens cDNA clone IMAGE:1831161 3' similar to contains ALU repetitive element;
5183	18192		0.92	6.0E-25	AA964228.1	EST_HUMAN	ES1381217 MAQE reassessances, MAGP Homo sapiens cDNA
11645	24582	39150	3.16	5.0E-25	AW979107.1	EST_HUMAN	xs56h04.r1 Soares fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:121783 5'
1441	14474	27451	2.3	4.0E-25	T88107.1	EST_HUMAN	PM8-OT0093-280200-001-g07 OT0093 Homo sapiens cDNA
3413	16461		2.68	4.0E-25	AW887671.1	EST_HUMAN	Q158 norvegicus voltage-gated sodium channel mRNA, complete cds
3623	18683	29876	0.93	4.0E-25	AF000368.1	NT	Rattus norvegicus voltage-gated sodium channel mRNA, complete cds
4345	17372		3.13	4.0E-25	BE170957.1	EST_HUMAN	QV5-HT10543-140400-149.e11 HT10543 Homo sapiens cDNA
3331	16382	28303	2.77	3.0E-25	8923321	NT	Homo sapiens hypothetical protein FLJ20344 (FLJ20344), mRNA
3331	16382	29304	2.77	3.0E-25	8923321	NT	Homo sapiens hypothetical protein FLJ20344 (FLJ20344), mRNA
5877	18966	32157	0.64	3.0E-25	U53212.1	NT	Human degenerate channel MDEG mRNA, partial cds

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6769	19824	33107	0.66	3.0E-25	AA603590.1	EST_HUMAN	hp27b02.a.1 NC1_CGAP_P22 Homo sapiens cDNA clone IMAGE:1117515 3' similar to gp.M61866 ZINC
6680	21648	35070	4.06	3.0E-25	AL163210.2	NT	FINGER PROTEIN 85 (HUMAN);
1330	14385	27954	2.8	2.0E-25	5032158	NT	Homo sapiens chromosome 21 segment HS21C010
2317	15328	26351	7.52	2.0E-25	BE869016.1	EST_HUMAN	Homo sapiens transducin (beta)-like 1 (TBL1) mRNA
2842	15551	28572	3.35	2.0E-25	P17008	SWISSPROT	6015130F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3613087 5'
4218	17247	30131	1.96	2.0E-25	P17008	SWISSPROT	40S RIBOSOMAL PROTEIN S16
4218	17247	30132	1.96	2.0E-25	P17008	SWISSPROT	40S RIBOSOMAL PROTEIN S16
10123	23049	36528	2.03	2.0E-25	AL449573.1	EST_HUMAN	AL449573 Homo sapiens Testis (Starvules GS) Homo sapiens cDNA
364	13450	26378	1.34	1.0E-25	AL040229.1	EST_HUMAN	DKFZp434H0313_r1 434 (synonym: Hies3) Homo sapiens cDNA clone DKFZp434H0313 5'
1253	14289	26378	1.04	1.0E-25	Q60655	SWISSPROT	Human endogenous retrovirus, complete genome
2441	15448	28468	1.04	1.0E-25	Q60655	SWISSPROT	ATP SYNTHASE LIPID-BINDING PROTEIN P2 PRECURSOR (ATPASE PROTEIN 9) (SUBUNIT C)
4695	17812	30802	2.33	1.0E-25	BE162737.1	EST_HUMAN	PM1-HT0454-090100-002-H08 HT0454 Homo sapiens cDNA
6719	19775		0.83	1.0E-25	AA198080.1	EST_HUMAN	z45808.s1 Striatum hNT neuron (#637233) Homo sapiens cDNA clone IMAGE:632627 3' similar to
6685	25678	33516	3.22	1.0E-25	AA582890.1	EST_HUMAN	contains Alu repetitive element;
8246	21215	34623	4.36	1.0E-25	AA709079.1	EST_HUMAN	nm34h1.1.s1 NC1_CGAP_Kd6 Homo sapiens cDNA clone IMAGE:384822 3' similar to contains
9604	22846	36317	0.69	1.0E-25	X60680.1	NT	z166q04.s1 Soares_fetal_hear_NbH18W Homo sapiens cDNA clone IMAGE:384822 3' similar to contains
9604	22846	36318	0.69	1.0E-25	X60680.1	NT	PTRE.63 PTRS repetitive element ;
11316	24266	37794	2.91	1.0E-25	U93163.1	NT	R ratius RY2G3 mRNA for a potential ligand-binding protein
12278	25097	38180	1.47	1.0E-25	D14547.1	NT	R ratius RY2G3 mRNA for a potential ligand-binding protein
12278	25097	38181	1.47	1.0E-25	D14547.1	NT	Human DNA, SINE repetitive element
13053	25591		1.83	1.0E-25	XG1755.1	NT	Human lambda immunoglobulin constant region complex (germline)
2491	15494	28519	1.47	9.0E-26	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
5778	18870		1.58	8.0E-26	D14547.1	NT	Human DNA, SINE repetitive element
1580	14613	27585	2.88	7.0E-26	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
4005	17044	29582	1.21	7.0E-26	X69211.1	NT	H sapiens DNA for endogenous retroviral like element
4186	17217	30103	1.69	7.0E-26	AW340153.1	EST_HUMAN	h402a12.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2903560 3'
5721	18815	31894	0.72	7.0E-26	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
19778	24855		8.08	7.0E-26	AA115895.1	EST_HUMAN	zn33d08.r1 Striatum neuroepithelium NT2RAMI 837234 Homo sapiens cDNA clone IMAGE:548943 5' similar to gp.M14339 VITAMIN K-DEPENDENT PROTEIN S PRECURSOR (HUMAN);

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2234	15248	28272	2.26	6.0E-26	AF029308.1	NT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and trypsinogen gene families
3357	18407	26329	1.03	5.0E-26	AA206131.1	EST_HUMAN	zfp210.4.11 Stratagene neuroepithelium (8937231) Homo sapiens cDNA clone IMAGE:945271 5'
11990	24897	38482	1.91	5.0E-26	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1181	14222	27178	1.86	5.0E-26	AI709235.1	EST_HUMAN	as38908.x1 Barsbad aorta HPLR88 Homo sapiens cDNA clone IMAGE:2319519 3' similar to
1181	14222	27179	1.86	5.0E-26	AI709235.1	EST_HUMAN	WP:FA9C12.11 CE03371 ;
1546	14579		0.96	4.0E-26	AA329548.1	EST_HUMAN	WP:FA9C12.11 CE03371 ;
9787	22708		3.77	4.0E-26	7857870	NT	ES:73446 Embryo, 12 week II Homo sapiens cDNA 5' end
11022	23987	37514	2.93	4.0E-26	BE296187.1	EST_HUMAN	Homo sapiens upstream binding transcription factor, RNA polymerase I (UBTF), mRNA
1773	14802	27787	2.15	3.0E-26	D14547.1	NT	601191345F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3555210 5'
2019	15040	28051	1.27	3.0E-26	AL045953.2	EST_HUMAN	Human DNA, SINE repetitive element
2047	15066		3.59	3.0E-26	AA115895.1	EST_HUMAN	DKFZp4341066.1_1_434 (synonym: h1a3) Homo sapiens cDNA clone DKFZp4341066 5'
3791	16832	29738	1.12	3.0E-26	AA152464.1	EST_HUMAN	z030d08.1 Stratagene neuroepithelium NT2RAM1 937234 Homo sapiens cDNA clone IMAGE:948943 5'
3791	16832	29739	1.12	3.0E-26	AA152464.1	EST_HUMAN	similar to gb:U14338 VITAMIN K-DEPENDENT PROTEIN S PRECURSOR (HUMAN);
7096	20030	35334	6.22	3.0E-26	BF245458.1	EST_HUMAN	z030f10.1 Stratagene cdon (8937204) Homo sapiens cDNA clone IMAGE:588427 5' similar to TR:G695374
11894	24775	38381	2.03	3.0E-26	AW875651.1	EST_HUMAN	G695374 THYROID RECEPTOR INTERACTOR ;
11894	24775	38382	2.03	3.0E-26	AW875651.1	EST_HUMAN	G695374 THYROID RECEPTOR INTERACTOR ;
11928	24809	38404	4.91	3.0E-26	AA583173.1	EST_HUMAN	6011864963F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4083278 5'
13101	25624	31678	1.37	3.0E-26	AF165520.1	NT	QV2-P10012-040400-124-603 PT0012 Homo sapiens cDNA
682	13745	26672	10.08	2.0E-26	AL163282.2	NT	QV2-P10012-040400-124-603 PT0012 Homo sapiens cDNA
1884	14909		3.56	2.0E-26	AL030099.2	EST_HUMAN	nm37d05.1 NCI_CGAP_GCS Homo sapiens cDNA clone IMAGE:1086057 3' similar to contains OFR.11
3245	16302	29225	4.92	2.0E-26	X86994.1	NT	OFR repetitive element ;
11105	24665		2.38	2.0E-26	D87675.1	NT	Homo sapiens phospholipase I protein (PBI) mRNA, complete cds
11553	24493	38049	2.55	2.0E-26	AB01412.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C082
11748	24633		1.76	2.0E-26	AF055066.1	NT	DKFZp566L171.1_51 B68 (synonym: h1fkd) Homo sapiens cDNA clone DKFZp566L171 3'
12097	24998	38565	1.64	2.0E-26	M32788.1	NT	M.musculus mRNA for astrocytic phosphoprotein, PCA-15
12388	25166		1.7	2.0E-26	AB037659.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
							t889d11.v1 NCI_CGAP_GCS Homo sapiens cDNA clone IMAGE:2185418 3' similar to contains Alu
							repetitive element; contains element MER20 MER20 repetitive element ;
							Homo sapiens MHC class I region
							Human endogenous retroviral element S71
							Homo sapiens mRNA for KIAA1438 protein, partial cds

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137	13242	26172	37.48	1.0E-26	BE170371.1	EST_HUMAN	Q14HT0538-020300-123-a02 HT0538 Homo sapiens cDNA
2063	15091	28100	1.33	1.0E-26	AL039363.2	EST_HUMAN	DKFZP434H1910.1 434 (synonym: hne3) Homo sapiens cDNA clone DKFZP434H1910.5
2697	15693		11.4	1.0E-26	AF261095.1	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPDH) mRNA, complete cds
7018	20142		2.79	1.0E-26	BE165980.1	EST_HUMAN	MR3-HT0487-150200-113-g01 HT0487 Homo sapiens cDNA
11239	24192		2.12	1.0E-26	AL039487.1	EST_HUMAN	DKFZP566C2146.1 568 (synonym: hnfcd2) Homo sapiens cDNA clone DKFZP566C2146.5
12630	25968		2.65	1.0E-26	H65093.1	EST_HUMAN	CHRT20032 Chromosome 22 exon Homo sapiens cDNA clone C22_45_5
7637	20784		1.24	9.0E-27	BF371227.1	EST_HUMAN	R68-FH0136-10800-022-A02 FH0138 Homo sapiens cDNA
9658	22815		4.04	9.0E-27	U693163.1	NT	Homo sapiens IMAGE-B2 (IMAGE-B2), IMAGE-B3 (IMAGE-B3), IMAGE-B4 (IMAGE-B4), and IMAGE-B1 (IMAGE-B1) genes, complete cds
12142	25006		5.95	9.0E-27	BF445556.1	EST_HUMAN	ncu03a07.x1 NCI CGAP_P128 Homo sapiens cDNA clone IMAGE:3253844.3 similar to contains OFR.t1
11	13131	26029	4.71	8.0E-27	AI831462.1	EST_HUMAN	OFR repetitive element ;
559	13628		4.61	8.0E-27	AL163227.2	NT	THR repetitive element ;
1414	14447	27419	30.06	8.0E-27	AW162737.1	EST_HUMAN	Home sapiens chromosome 21 segment HS21C027
1414	14447	27420	30.06	8.0E-27	AW162737.1	EST_HUMAN	au87H08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783295.3 similar to gb:K00558
2177	15192	28214	1.1	8.0E-27	AW684776.1	EST_HUMAN	TUBULIN ALPHA-1 CHAIN (HUMAN);
3169	16254	29174	1.17	8.0E-27	P12236	SWISSPROT	PM2-SN0018-220300-002-407 SN0018 Homo sapiens cDNA
3364	16414	29339	0.84	8.0E-27	AF181897.1	NT	ADP-ATP CARRIER PROTEIN, LIVER ISOFORM T2 (ADP/ATP TRANSLOCASE 3) (ADENINE NUCLEOTIDE TRANSLOCATOR 3) (ANT 3)
5778	19871	32053	0.97	8.0E-27	AV732214.1	EST_HUMAN	Homo sapiens WRN (WRN) gene, complete cds
7170	18401		2.12	8.0E-27	BE926560.1	EST_HUMAN	MR4-BT0398-250800-204-008 BT0398 Homo sapiens cDNA
7248	16683	33280	2.41	8.0E-27	N84970.1	EST_HUMAN	J1751F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone J1751.5 similar to
9584	22528	33976	1.41	8.0E-27	AW857578.1	EST_HUMAN	REPETITIVE ELEMENT L1
9584	22526	33976	1.41	8.0E-27	AW857578.1	EST_HUMAN	GM1-CT0315-091289-069-407 CT0315 Homo sapiens cDNA
684	13747		1.65	7.0E-27	AT70684.1	NT	GM1-CT0315-091289-069-407 CT0315 Homo sapiens cDNA
5126	18135		2.05	7.0E-27	AW629172.1	EST_HUMAN	Human endogenous retroviral element HC2
9209	22176		0.98	7.0E-27	D6884.1	NT	h51h12.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2975879.3 similar to TR-076040
11101	24061		3.24	7.0E-27	AJ271735.1	NT	TR-076040 ORF2 FUNCTION UNKNOWN ;
12759	25402		1.54	7.0E-27	AV723365.1	EST_HUMAN	Human mRNA for KIA0231 gene, partial cds
							Homo sapiens Xq pseudautosomal region, segment 1/2
							AV723365 HTB Homo sapiens cDNA clone HTBAHE02.5

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11080	24042	37565	10.71	5.0E-27	M26987.1	NT	Human nuclear protein (B23) mRNA, complete cds
8055	20992		0.79	5.0E-27	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
10597	23519	37010	3.37	5.0E-27	BF666914.1	EST_HUMAN	602121491F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4278527 5'
10597	23519	37011	3.37	5.0E-27	BF666914.1	EST_HUMAN	602121491F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4278527 5'
6808	19690	33256	3.22	4.0E-27	9910588	NT	Human muscle sperm tail associated protein (Slap), mRNA
8271	21240		1.22	4.0E-27	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
8316	21295		1.25	4.0E-27	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
10101	23027	39504	0.72	4.0E-27	AF080859.1	EST_HUMAN	OVG-OT0033-070300-152-b10 OT0033 Homo sapiens cDNA
11928	24810	39405	1.98	4.0E-27	X89211.1	NT	H sapiens DNA for endogenous retroviral like element
2057	19076	28096	4.38	3.0E-27	X60658.1	NT	Rattus RY43 mRNA for a potential ligand-binding protein
4300	17320	30209	1.08	3.0E-27	BE071924.1	EST_HUMAN	PMO-BT0527-090100-001-411 BT0527 Homo sapiens cDNA
5419	18522	31400	5.66	3.0E-27	AA077705.1	EST_HUMAN	7844C08 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B44C08
8089	21025	34424	0.57	3.0E-27	BE670351.1	EST_HUMAN	763302.x1 NCI CGAP Lu24 Homo sapiens cDNA clone IMAGE:3264283 3'
9660	22817	36271	4.46	3.0E-27	BF35327.1	EST_HUMAN	601456531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
43	13163	20066	9.25	2.0E-27	AF054187.1	NT	Homo sapiens alpha NAC mRNA, complete cds
1911	14935		24.32	2.0E-27	AA595345.1	EST_HUMAN	nk01b70.s1 NCI CGAP_P111 Homo sapiens cDNA clone IMAGE:1000699 similar to gb:M17886 60S
3126	16183		10.81	2.0E-27	AW629172.1	EST_HUMAN	h51M12.x1 Soares, NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2975879 3' similar to TR:O76040
3238	16293	28215	1.61	2.0E-27	AF111167.2	NT	O76040 ORF2 FUNCTION UNKNOWN ;
3238	16293	28216	1.61	2.0E-27	AF111167.2	NT	Homo sapiens Jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
6933	19886	33179	0.72	2.0E-27	H02855.1	EST_HUMAN	Homo sapiens Jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
8427	21396	34807	1.44	2.0E-27	AI069347.1	EST_HUMAN	SP:PMGC_MOUSE Q02581 HOMEOBOX PROTEIN ;
9624	22568		2.61	2.0E-27	AA651527.1	EST_HUMAN	w28g07.x1 NCI CGAP_UH Homo sapiens cDNA clone IMAGE:2428288 3'
10151	23076	36552	0.78	2.0E-27	X60658.1	NT	nk08H05.s1 NCI CGAP_Try1 Homo sapiens cDNA clone IMAGE:943737 similar to contains L1 13 L1 repetitive element ;
10395	23317	39797	1.32	2.0E-27	M78590.1	EST_HUMAN	Rattus RY43 mRNA for a potential ligand-binding protein
10395	23317	39798	1.32	2.0E-27	M78590.1	EST_HUMAN	EST100738 Fetal brain, Stratagene (cat#936206) Homo sapiens cDNA clone HFBCF07
11302	24252	37778	2.97	2.0E-27	AU121865.1	EST_HUMAN	EST100738 Fetal brain, Stratagene (cat#936206) Homo sapiens cDNA clone HFBCF07
11816	14935		19.93	2.0E-27	AA595345.1	EST_HUMAN	AU121865 MAMMA1 Homo sapiens cDNA clone MAMMA1000748 5'
							nk01b70.s1 NCI CGAP_P111 Homo sapiens cDNA clone IMAGE:1000699 similar to gb:M17886 60S
							ACIDIC RIBOSOMAL PROTEIN P1 (HUMAN);

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
436	13510		2.28	1.0E-27	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
998	14049	27002	1.58	1.0E-27	AB028898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
1707	14738	27720	0.95	1.0E-27	4827059	NT	Homo sapiens xylulokinase (H. influenzae) homolog (XylL) mRNA
4108	17142		1.08	1.0E-27	BE350127.1	EST_HUMAN	h03g01.x1 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER28.b3
6694	19751	33028	5.21	1.0E-27	6006835	NT	Homo sapiens Rethin-derived POU-domain factor-1 (RPF-1), mRNA
7094	20076	33584	2.01	1.0E-27	F30158.1	EST_HUMAN	HSPD20481 HM3 Homo sapiens cDNA clone s4000095C10
7054	20078	33585	2.01	1.0E-27	F30158.1	EST_HUMAN	HSPD20481 HM3 Homo sapiens cDNA clone s4000095C10
8957	21923	35351	0.71	1.0E-27	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
9337	22302		2.33	1.0E-27	BE078780.1	EST_HUMAN	RC6-BT0827-140200-011-E06 BT0827 Homo sapiens cDNA
10080	23007	38478	2.7	1.0E-27	D87449.1	NT	Human mRNA for KIAA0260 gene, partial cds
12016	24953	39490	3.73	1.0E-27	AF111093.1	NT	Bos taurus latrophilin, 3 splice variant brain mRNA, complete cds
143	13245		2.16	9.0E-28	BE348399.1	EST_HUMAN	hw17c1.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3183168 3' similar to TR-Q07314 Q07314
341	13403	26329	2.64	9.0E-28	AU126260.1	EST_HUMAN	SECRETED NEUREXIN II-ALPHA-C PRECURSOR, [S] TR-Q07280 TR-Q07313 ;
4817	17834	30732	1.08	9.0E-28	P50447	SW/SSPROT	ALPHA-1-ANTITRYPSIN PRECURSOR (ALPHA-1 PROTEINASE INHIBITOR) (ALPHA-1-ANTITRYPSIN)
12222	20058		3.71	9.0E-28	BF377859.1	EST_HUMAN	CY2-TN0140-0-70800-372-g01 TN0140 Homo sapiens cDNA
12553	25817		1.9	8.0E-28	AW157871.1	EST_HUMAN	au3310d.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:278291.1 3' similar to
1185	14226	27182	8.96	7.0E-28	AU142750.1	EST_HUMAN	TR-063002 O63002 KIAA0555 PROTEIN, contains element MER22 repetitive element ;
11520	24461	38012	2.43	7.0E-28	11417866	NT	AU142750 Y78AA1 Homo sapiens cDNA clone Y78AA1000824 5'
12181	26029		2.98	7.0E-28	AV753348.1	EST_HUMAN	Homo sapiens gamma-glutamyltransferase-like activity 1 (GGTLA1), mRNA
9271	22237		1.09	6.0E-28	AF018032.1	NT	AV753348 CB Homo sapiens cDNA clone CBRAKA12 5'
12806	25433		3.82	6.0E-28	AA504562.1	EST_HUMAN	Homo sapiens zinc finger protein ZNF191 (ZNF191) gene, complete cds
318	13410		3.1	5.0E-28	A921003.1	EST_HUMAN	aa606c3.t1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:828340 3' similar to contains Alu
4035	17073	29973	1.52	5.0E-28	R70762.1	EST_HUMAN	rep1 repetitive element; contains element PTER5 repetitive element ;
2553	15532	29657	1.48	4.0E-28	AW195066.1	EST_HUMAN	wo18c07.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2455692 3' similar to contains THR.b1
2958	16047	29867	1.18	4.0E-28	4505316	NT	THR repetitive element ;
3175	16182	29092	1.93	4.0E-28	BE409100.1	EST_HUMAN	y68f07.t1 Soares placenta N26HP Homo sapiens cDNA clone IMAGE:149443 5'
							xn33c06.x1 NCI_CGAP_Kid1 Homo sapiens cDNA clone IMAGE:2895504 3' similar to SW-G065_HUMAN
							Q08578 GOLGIN-95 ;
							Homo sapiens myosin phosphatase, target subunit 1 (MYPT1), mRNA
							601300703F.1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635305 5'

Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7551	20514	33872	2.45	4.0E-28	AI198941.1	EST_HUMAN	d6810.x1 Soares, testis, NHT Homo sapiens cDNA clone IMAGE:1755019 3' similar to glbM19503 LINE-1
11213	24166						REVERSE TRANSCRIPTASE HOMOLOG (HUMAN);
11349	24298		3.51	4.0E-28	AF026308.1	NT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and tryptophan gene families
			38.65	4.0E-28	AE038241.1	NT	Felis catus GAPDH mRNA for glyceraldehyde-3-phosphate dehydrogenase, complete cds
11364	20614	33872	3.87	4.0E-28	AI198941.1	EST_HUMAN	d6810.x1 Soares, testis, NHT Homo sapiens cDNA clone IMAGE:1755019 3' similar to glbM19503 LINE-1
12860	25301		1.86	4.0E-28	AW85424.1	EST_HUMAN	REVERSE TRANSCRIPTASE HOMOLOG (HUMAN);
							RC3-CT0284-240400-210-112 CT0254 Homo sapiens cDNA
1288	14323		2.61	3.0E-28	AF155382.1	NT	Homo sapiens metalloproteinase-like, disintegrin-like, cysteine-rich protein 2 epsilon (ADAM22) mRNA, complete cds
9179	22145	35572	1.94	3.0E-28	BF354030.1	EST_HUMAN	MR3-HT0713-280500-013-009 HT0713 Homo sapiens cDNA
11282	24232	37768	2.14	3.0E-28	U63588.1	NT	Homo sapiens MHC class 1 region
12828	25315		2.92	3.0E-28	AI831991.1	EST_HUMAN	w98807.x1 NC1 CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2410885 3' similar to contains Alu
89	13205	26126	11.64	2.0E-28	BE082167.1	EST_HUMAN	repetitive element contains element HGR repetitive element ;
1047	14083	27045	4.14	2.0E-28	4501912	NT	RC1-BT0254-220300-019-c05 BT0254 Homo sapiens cDNA
1108	14083	27164	12.37	2.0E-28	Y1107.3	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
							Homo sapiens ITGB4 gene for integrin beta 4 subunit, exons 3-41
2485	15469	28513	2.27	2.0E-28	AI346834.1	EST_HUMAN	q63506.x1 NC1 CGAP_Lus Homo sapiens cDNA clone IMAGE:1910483 3' similar to contains L1 b2 L1
3373	16423	29348	0.76	2.0E-28	AL163209.2	NT	repetitive element ;
							Homo sapiens chromosome 21 segment HS21C009
6440	19805	32766	1.48	2.0E-28	BF224402.1	EST_HUMAN	w76d03.x1 NC1 CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134404 3' similar to contains LOR1.b1
6464	19526		6.46	2.0E-28	BF212905.1	EST_HUMAN	LOR1 repetitive element ;
8379	21348	34760	0.78	2.0E-28	AF005273.1	NT	801814196.F1 NIT MGCG 54 Homo sapiens cDNA clone IMAGE:3048751 5'
8943	22870		8.88	2.0E-28	AW1972305.1	EST_HUMAN	Sus scrofa domestica submaxillary apomucin mRNA, complete cds
							EST384394 MAGE resequences, MAGE, Homo sapiens cDNA
							Homo sapiens mannosidase, beta A, Yescomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3
11836	24817	38414	1.92	2.0E-28	AF244669.1	NT	(UBE2D) genes, complete cds
12809	25308		2.06	2.0E-28	H06376.1	EST_HUMAN	yf9609.11 Soares Infant brain 1M18 Homo sapiens cDNA clone IMAGE:44300 5'
1474	14507	27481	3.16	1.0E-28	D38044.1	NT	Homo gene for Ah-receptor, exon 7-9
2229	15243	28268	1.84	1.0E-28	BF33236.1	EST_HUMAN	QV7-BT0821-120900-360-008 BT0821 Homo sapiens cDNA
2882	15688	28705	0.92	1.0E-28	AF000965.1	NT	QV7-BT0821-120900-360-008 BT0821 Homo sapiens cDNA
4885	18000	30888	0.84	1.0E-28	AF732194.1	EST_HUMAN	Homo sapiens ubiquitin TPR motif, Y isoform (UTY) mRNA, alternative transcript 2, complete cds
8193	21163		8.03	1.0E-28	11428885	NT	AF732194 HTF Homo sapiens cDNA clone HTFBH05 5'
8352	21321		3.37	1.0E-28	8622793	NT	Homo sapiens similar to ribosomal protein L12 (H. sapiens) (LOC63091), mRNA
							Homo sapiens hypodermal protein FLJ10968 (FLJ10968), mRNA

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9633	22577	39027	4.47	1.0E-28	AA3308744.1	EST_HUMAN	EST1779615 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to similar to retroviral LTR
10295	23180	36548	6.47	1.0E-28	4758431	NT	Homo sapiens gamma-glutamyltransferase-like activity 1 (GGTLA1), mRNA
10235	23180	36849	6.47	1.0E-28	4758431	NT	Homo sapiens gamma-glutamyltransferase-like activity 1 (GGTLA1), mRNA
12186	25033		4.36	1.0E-28	AA054182.1	EST_HUMAN	ZB1C01.T1 Soares retina N264HR Homo sapiens cDNA clone IMAGE:390448 5'
12931	25716		2.59	1.0E-28	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
13037	25918	31302	3.48	9.0E-29	AV1653987.1	EST_HUMAN	h17905.x1 Soares, NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2878296 3'
12713	25937		3.12	8.0E-29	Q00130	SWISSPROT	HYPOPHYSICAL GENE 50 PROTEIN
1608	14638	27615	1.04	7.0E-29	AV956447.1	EST_HUMAN	EST178521 IMAGE sequences, MAGI Homo sapiens cDNA
3564	16910		0.9	7.0E-29	BE254708.1	EST_HUMAN	601114990f1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3355387 5'
13086	25816		9.37	7.0E-29	AJ132352.1	NT	Rattus norvegicus mRNA for 45 kDa secretory protein, partial
597	13884	29578	6.67	6.0E-29	AI935748.1	EST_HUMAN	w959601.x1 NCI CGAP Brn25 Homo sapiens cDNA clone IMAGE:2466985 3' similar to TR:O15475
12489	25234		8.12	6.0E-29	BE940436.1	EST_HUMAN	O15475 UNNAMED HERV-H PROTEIN; contains LTR7.b1 LTR repetitive element ;
12574	25284		1.97	6.0E-29	BF568097.1	EST_HUMAN	RC3-UT0062-2:0800-021-c05 UT0052 Homo sapiens cDNA
5033	18047		1.34	5.0E-29	AL163203.2	NT	602184092f1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300079 5'
9083	22049		8.5	5.0E-29	AW887541.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C003
3246	18301		1.33	4.0E-28	AI752387.1	EST_HUMAN	RC3-OT0091-170300-011-c12 OT0091 Homo sapiens cDNA
6125	19203		5.91	4.0E-28	BE164830.1	EST_HUMAN	en15c02.x1 Normal Human Tubular Bone Cells Homo sapiens cDNA clone NHTBC_en15c02 random
8417	21386	34794	0.92	4.0E-28	AI678101.1	EST_HUMAN	QV1-HT047f1:280300-121-a05 HT047f1 Homo sapiens cDNA
8417	21388	34795	0.92	4.0E-28	AI678101.1	EST_HUMAN	w35596.x1 Soares, NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2330170 3' similar to contains MER28.12 MER29 repetitive element ;
9097	22023	35488	2.97	4.0E-29	JO4988.1	NT	MER29.12 MER29 repetitive element ;
2378	13387	28411	0.94	3.0E-29	U67847.1	NT	Human 90 kD heat shock protein gene, complete cds
4444	17470	30359	1.61	3.0E-29	AB042297.1	NT	Human beta-glucosidase alpha2,6-sialyltransferase (SIAT1), mRNA, exon U
4764	17764	30680	0.94	3.0E-29	BF333285.1	EST_HUMAN	Homo sapiens PTS gene for 6-pyruvoyltryptophan synthase, complete cds
6040	18122	32327	0.77	3.0E-28	BE314018.1	EST_HUMAN	QV1-BT0821-120900-360-B03 BT0821 Homo sapiens cDNA
9085	22051	35473	2.19	3.0E-29	D38044.1	NT	601150657f1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3908527 5'
9655	22598	36047	1.87	3.0E-28	AW303317.1	EST_HUMAN	Human gene for Ahr-receptor, exon 7-9
9689	22842		2.2	3.0E-29	AL163246.2	NT	xv17703.x1 Soares, NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2813405 3' similar to contains Alu repetitive element; contains MER19.12 MER19 repetitive element ;

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10318	23242		0.73	3.0E-28	BE350127.1	EST_HUMAN	h10901.x1 NCL CGAP_KR13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29 b3
12365	25163		2.34	3.0E-28	D63882.1	NT	MER29 repetitive element;
493	13505	26487	1.68	2.0E-28	AF084969.1	NT	Homo sapiens envelope protein RIC-5 (env) gene, complete cds
493	13505	26488	1.68	2.0E-28	AF084969.1	NT	Homo sapiens envelope protein RIC-5 (env) gene, complete cds
1535	14568	27538	7.19	2.0E-28	AB693604.1	EST_HUMAN	w65d10.x1 NCL CGAP_UH Homo sapiens cDNA clone IMAGE:2492563 3' similar to TR-O15548 O15546
1535	14568	27539	7.19	2.0E-28	AB693604.1	EST_HUMAN	HERVE ENVELOPE GLYCOPROTEIN;
4308	17337	30215	2.4	2.0E-28	AL163268.2	NT	HERVE ENVELOPE GLYCOPROTEIN;
5251	18259	31128	0.99	2.0E-28	O54827	SWISSPROT	Homo sapiens chromosome 21 segment HS21C068
5824	19010	32203	1.08	2.0E-28	AJ082456.1	EST_HUMAN	POTENTIAL PHOSPHOLIPID-TRANSPORTING ATPASE VA
6304	19376	32613	1.22	2.0E-28	AB064118.1	EST_HUMAN	cs71e04.x1 NCL CGAP_GC2 Homo sapiens cDNA clone IMAGE:1610814 3' similar to contains L1.12 L1
7808	19375	32613	1.18	2.0E-28	AB064118.1	EST_HUMAN	repetitive element;
8309	21276	34690	1.04	2.0E-28	BE897157.1	EST_HUMAN	w127g07.x1 Sources_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356660 3' similar to contains element MER6 repetitive element;
8824	21890	35317	0.83	2.0E-28	-10567821	NT	w127g07.x1 Sources_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356660 3' similar to contains element MER6 repetitive element;
8824	21890	35318	0.83	2.0E-28	-10567821	NT	601442206F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3846648 5'
9666	22802	36255	3.5	2.0E-28	AL163248.2	NT	Homo sapiens DNA-binding protein (LOC56242). mRNA
9666	22802	36256	3.5	2.0E-28	AL163248.2	NT	Homo sapiens DNA-binding protein (LOC56242). mRNA
10599	23521	37013	3.27	2.0E-28	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
10599	23521	37014	3.27	2.0E-28	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
11806	24692		4.13	2.0E-28	11425108	NT	Homo sapiens chromosome 21 segment HS21C048
11844	24727		2.03	2.0E-28	AW880701.1	EST_HUMAN	Homo sapiens splicing factor similar to hnaf (SPF31). mRNA
9144	22110	35536	10.17	1.0E-28	AW883880.1	EST_HUMAN	QV6-O10032-080300-155-301 OT0032 Homo sapiens cDNA
10586	23906	37420	0.59	1.0E-28	X60668.1	NT	RC1-HN0003-220300-021-504 HN0003 Homo sapiens cDNA
							R. rattus RY23 mRNA for a potential ligand-binding protein
8734	19790	33070	3.26	9.0E-30	AA761215.1	EST_HUMAN	h22d07.s1 NCL CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1288332 3' similar to contains MER4 b1
12263	25087		2.14	9.0E-30	11422745	NT	MER4 repetitive element;
6452	19617		9.62	8.0E-30	F06888.1	EST_HUMAN	Homo sapiens zinc/fon regulated transporter-like (ZIRTU). mRNA
8513	21581	34997	3.18	8.0E-30	AJ333873.1	EST_HUMAN	HSC23F051 normalized infant brain cDNA Homo sapiens cDNA clone c.23105
9031	21997	35418	3.9	8.0E-30	AJ507072.1	EST_HUMAN	EST19317 Thymus 1 Homo sapiens cDNA 5' and similar to EST containing O family repeat

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1518	14550		1.02	7.0E-30	BE001133.1	EST_HUMAN	PIM4-BT0724-150400-004-d11 BT0724 Homo sapiens cDNA
1571	14604		1.4	6.0E-30	X51755.1	NT	Human lambda3immunoglobulin constant region complex (germline)
1768	14617	27802	1.8	6.0E-30	D25033.1	NT	Human mRNA for integrin alpha subunit, complete cds
3204	16259	29178	2.51	6.0E-30	BE008026.1	EST_HUMAN	QV0-BN0147-260400-214-F12 BN0147 Homo sapiens cDNA
4791	16259	29178	1.02	6.0E-30	BE008026.1	EST_HUMAN	QV0-BN0147-260400-214-F12 BN0147 Homo sapiens cDNA
10905	23825	37337	0.74	6.0E-30	AF17227.1	NT	Homo sapiens CTCL tumor antigen sa20-10 mRNA, partial cds
13054	14604		4.35	6.0E-30	X51755.1	NT	Human lambda3immunoglobulin constant region complex (germline)
4041	17079	26979	32.98	5.0E-30	AI309992.1	EST_HUMAN	192903 x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2116276 3' similar to contains Alu repetitive element
5310	25746		4.98	5.0E-30	U87931.1	NT	Human acitlate hydratase (ACO2) gene, exon 7
11233	24196		2.21	5.0E-30	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
11489	24432	37681	2.03	5.0E-30	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
11489	24432	37682	2.03	5.0E-30	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
2153	15189	29185	1.79	4.0E-30	AW937471.1	EST_HUMAN	QV3-DT0043-090200-080-c06 DT0043 Homo sapiens cDNA
2153	15189	29186	1.79	4.0E-30	AW937471.1	EST_HUMAN	QV3-DT0043-090200-080-c06 DT0043 Homo sapiens cDNA
7035	18397	31254	0.55	4.0E-30	P11369	SWISSPROT	RETROVIRUS-RELATED POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE ; ENDONUCLEASE]
9256	22222	33952	2.5	4.0E-30	AW812488.1	EST_HUMAN	CMT-ST0181-081199-035-108 ST0181 Homo sapiens cDNA
1154	14196		4.51	3.0E-30	AI338551.1	EST_HUMAN	qq93c05.x1 Soares, total Testis_Nb2HF8. 9w Homo sapiens cDNA clone IMAGE:1638920 3' similar to contains MER29.b2 MER29 repetitive element
3770	16812	29721	1.03	3.0E-30	AF128893.1	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 1-6
1470	20436	33793	0.5	3.0E-30	T18862.1	EST_HUMAN	br2056a Testis 1 Homo sapiens cDNA clone br2056
8284	21233		0.52	3.0E-30	AF078779.1	NT	Rattus norvegicus putative four repeat lon channel mRNA, complete cds
9831	21798		0.44	3.0E-30	AF078779.1	NT	Rattus norvegicus putative four repeat lon channel mRNA, complete cds
10800	23721	37224	2.18	3.0E-30	BE350127.1	EST_HUMAN	h10901.x1 NCI_CGAP_Kld13 Homo sapiens cDNA clone IMAGE:3148258 3' similar to contains MER29.b3 MER29 repetitive element
10932	23832	37366	0.52	3.0E-30	AB032699.1	NT	Homo sapiens mRNA for KIAA1143 protein, partial cds
10932	23832	37367	0.52	3.0E-30	AB032699.1	NT	Homo sapiens mRNA for KIAA1143 protein, partial cds
11541	24652	38034	5.69	3.0E-30	P34056	SWISSPROT	TRANSCRIPTION FACTOR AP-2
676	13738	26666	1.57	2.0E-30	AW837316.1	EST_HUMAN	CMM-CT0307-310100-158-H03 CT0307 Homo sapiens cDNA
1085	14130		3.03	2.0E-30	F09698.1	EST_HUMAN	SC23F051 normalized infant brain cDNA Homo sapiens cDNA clone c-23105
1475	14508	27482	5.36	2.0E-30	BE175977.1	EST_HUMAN	RC5-HT0802-110400-013-H08 HT0802 Homo sapiens cDNA
2727	15721	29738	11.19	2.0E-30	BE768292.1	EST_HUMAN	IL2N10101-280700-116-E04 NT0101 Homo sapiens cDNA
2630	15988	28609	6.11	2.0E-30	AF114196.1	NT	Homo sapiens Y-linked Zinc finger protein (ZFY) gene, complete cds

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3903	18843	28751	2.1	2.0E-30	AW206581.1	EST_HUMAN	U1H-B11-afbc-12-0.1 NCI CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722856 3'
4812	17828	30726	1.76	2.0E-30	BE298945.1	EST_HUMAN	601119860F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028438 5'
4812	17828	30727	1.76	2.0E-30	BE298945.1	EST_HUMAN	601119860F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028438 5'
6822	19972	33269	0.71	2.0E-30	BF306337.1	EST_HUMAN	601893208F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4138993 5'
8620	21787	35211	0.69	2.0E-30	AA019103.1	EST_HUMAN	78580c10.r1 Soares retina N2b-4HR Homo sapiens cDNA clone IMAGE:363186 5'
8892	21849	35270	7.02	2.0E-30	C18839.1	EST_HUMAN	C18839 Human placenta cDNA (Tfujilwra) Homo sapiens cDNA clone GEN:570001 5'
8892	21948	35371	3.99	2.0E-30	BE570817.1	EST_HUMAN	7637c12.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284662 3' similar to SW-DHSA_HUMAN P31040 SUCCINATE DEHYDROGENASE [UBIQUINONE] FLAVOPROTEIN SUBUNIT PRECURSOR ;
8892	21948	35372	3.99	2.0E-30	BE570817.1	EST_HUMAN	7637c12.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284662 3' similar to SW-DHSA_HUMAN P31040 SUCCINATE DEHYDROGENASE [UBIQUINONE] FLAVOPROTEIN SUBUNIT PRECURSOR ;
10356	23280	36756	3.88	2.0E-30	AW671568.1	EST_HUMAN	EST38360F1 MAGE resequences. MAGL Homo sapiens cDNA
10442	23364	38854	8.55	2.0E-30	AW470791.1	EST_HUMAN	h832606.x1 NCI CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2876489 3' similar to contains T-HR b3 THR repetitive element ;
286	13381	26309	19.55	1.0E-30	C18839.1	EST_HUMAN	C18839 Human placenta cDNA (Tfujilwra) Homo sapiens cDNA clone IMAGE:2910991 3' similar to contains MER1 t3 MER1 MER1 repetitive element ;
539	13610	26529	7.04	1.0E-30	AW468897.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C003
717	13779	26713	1.23	1.0E-30	AL163203.2	NT	ac77608.s1 Strabagana lung (8937210) Homo sapiens cDNA clone IMAGE:868599 3'
2222	15236	28260	3.82	1.0E-30	AA664377.1	EST_HUMAN	60202260F1 NCI CGAP_Emb7 Homo sapiens cDNA clone IMAGE:4157691 5'
2469	15473	28498	2.39	1.0E-30	BF347728.1	EST_HUMAN	EST186958 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end
3067	18124	29037	1.12	1.0E-30	AA315045.1	EST_HUMAN	601809932F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040694 5'
7995	20584	34328	2.08	1.0E-30	BF183230.1	EST_HUMAN	CHR220532 Chromosome 22 exon Homo sapiens cDNA clone C22_728 5'
12862	25841		11.93	1.0E-30	H55593.1	EST_HUMAN	Y99608.r1 Soares infant brain 11ND Homo sapiens cDNA clone IMAGE:305566 5' similar to gb:X12853 RAS- RELATED PROTEIN RAB-2 (HUMAN);
8687	21695	35056	0.92	9.0E-31	R18214.1	EST_HUMAN	Y99608.r1 Soares infant brain 11NB Homo sapiens cDNA clone IMAGE:305566 5' similar to gb:X12853 RAS- RELATED PROTEIN RAB-2 (HUMAN);
8687	21635	35057	0.92	9.0E-31	R18214.1	EST_HUMAN	Y99608.r1 Soares infant brain 11NB Homo sapiens cDNA clone IMAGE:305566 5' similar to gb:X12853 RAS- RELATED PROTEIN RAB-2 (HUMAN);
8971	21937		1.79	9.0E-31	Z38293.1	EST_HUMAN	HSC20F032 normalized infant brain cDNA Homo sapiens cDNA clone c-05603 3'
8973	21639	35364	0.49	9.0E-31	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
1078	14123	27075	1.82	8.0E-31	8923389	NT	Homo sapiens hypothetical protein FLJ20420 (FLJ20420), mRNA
2423	15430		5.96	8.0E-31	AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C008
4955	17970	30860	1.12	8.0E-31	P23275	SWISSPROT	OLFATORY RECEPTOR 15 (OR3)
4955	17970	30861	1.12	8.0E-31	P23275	SWISSPROT	OLFATORY RECEPTOR 15 (OR3)

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
712	13774		1.99	7.0E-31	AA372637.1	EST_HUMAN	EST84555 Cdon adenocarcinoma IV Homo sapiens cDNA 5' end
2678	15872	28691	2.38	7.0E-31	BE326517.1	EST_HUMAN	hw08at11.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3182012 3'
2676	15672	28692	2.38	7.0E-31	BE326517.1	EST_HUMAN	hw08at11.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3182012 3'
8744	21712	35133	0.99	7.0E-31	AF208541.1	NT	Homo sapiens V1-vascular vasopressin receptor AVPR1A gene, promoter region and partial cds
8744	21712	35134	0.98	7.0E-31	AF208541.1	NT	Homo sapiens V1-vascular vasopressin receptor AVPR1A gene, promoter region and partial cds
9621	22585		0.92	7.0E-31	BE408911.1	EST_HUMAN	601304125F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638310 5'
12711	23368	31771	5.66	7.0E-31	X51735.1	NT	Human lambda-immunoglobulin constant region complex (germline)
3691	16734		3.06	6.0E-31	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
8493	21461		7.57	6.0E-31	AF050506.1	NT	Homo sapiens MHC class I region
8674	21642	35067	0.7	6.0E-31	BE390127.1	EST_HUMAN	NO9401.x1 NCL CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3148256 3' similar to contains MER29 b3
11090	24050	37573	1.86	6.0E-31	AU118105	EST_HUMAN	MER2a repetitive element 1
12325	25127	31848	2.27	6.0E-31	AW372968.1	EST_HUMAN	AU118105 HEMBAT Homo sapiens cDNA clone HEMBA1005050 5'
12456	25764		2.08	6.0E-31	BE894488.1	EST_HUMAN	RC5-BT0377-061289-031-D12 BT0377 Homo sapiens cDNA
194	13295	26222	2.83	5.0E-31	M00094.1	NT	601433087F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918524 5'
194	13295	26223	2.83	5.0E-31	M00094.1	NT	Homo sapiens type I DNA topoisomerase gene, exon 8
8788	21795		1.46	5.0E-31	BF096540.1	EST_HUMAN	Homo sapiens type I DNA topoisomerase gene, exon 8
598	13665		3.45	4.0E-31	AJ271735.1	NT	7106804.x1 NCL CGAP_G08 Homo sapiens cDNA clone IMAGE:3443479 3' similar to TR-Q13837 Q13837 SIMILAR TO POGO ELEMENT . contains L1.1 L1 repetitive element 1
						NT	Homo sapiens Xa pseudautosomal region, segment 1/2
							POLYPEPTIDE N-ACETYL GALACTOSAMINYL TRANSFERASE (PROTEIN UDP ACETYL GALACTOSAMINYL TRANSFERASE) (UDP-GALNAc:POLYPEPTIDE, N- ACETYL GALACTOSAMINYL TRANSFERASE) (GALNAc-T1)
1815	14647	27622	1.01	4.0E-31	Q10473	SWISSPROT	Homo sapiens chromosome 21 segment HS21C080
1834	14881		2.09	4.0E-31	AL163280.2	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
2800	15702		1.98	4.0E-31	5730038	NT	Rattus norvegicus GTP-binding protein REM2 (Rem2) mRNA, complete cds
10900	23820	37329	0.43	4.0E-31	AF084464.1	NT	
2603	15603	28625	0.98	3.0E-31	6005871	NT	Homo sapiens SEC83, endoplasmic reticulum transmembrane component (S. cerevisiae) like (SEC83L) mRNA
7582	20525	33883	6.73	3.0E-31	48298633	NT	Homo sapiens NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 8 (19kD, ASH1) (NDUFB8) mRNA
7736	20691	34055	1.28	3.0E-31	11420329	NT	Homo sapiens hypothetical protein FLJ10842 (FLJ10842), mRNA
8501	21469		2.35	3.0E-31	AL163260.2	NT	Homo sapiens chromosome 21 segment HS21C068
9939	22896	36328	4.66	3.0E-31	D14523.1	NT	Horse mRNA for fertilin L-chain, complete cds
10961	23881	37394	0.52	3.0E-31	AA472142.1	EST_HUMAN	z006404.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:731047 5'

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10895	23961	37486	3.17	3.0E-31	P11174	SWISSPROT	40S RIBOSOMAL PROTEIN S15 (RIG PROTEIN)
11487	24430		6.84	3.0E-31	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
1932	14956	27653	1.33	2.0E-31	AW838171.1	EST_HUMAN	QV2-L10057-290300-111-f03 L10051 Homo sapiens cDNA
2224	18238	26262	0.98	2.0E-31	AG93398.1	EST_HUMAN	IG44905.x1 Sources_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2111672 3'
2347	15356	28379	2.53	2.0E-31	AL119245.1	EST_HUMAN	DKFZp781G1513.1 761 (synonym: ham2) Homo sapiens cDNA clone DKFZp781G1513 5'
2447	15452	28473	5.67	2.0E-31	AA48824.1	EST_HUMAN	aa88111.s1 Stralagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:388413 3' similar to contains
5347	18452	31323	0.72	2.0E-31	AW44498.1	EST_HUMAN	UHH-12 THIR repetitive element
5708	18890	32072	2.86	2.0E-31	BE330127.1	EST_HUMAN	h09a01.x1 NCL CGAP_Kir13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29 b3
9431	22306		2.71	2.0E-31	AA877764.1	EST_HUMAN	h0604.s1 NCL CGAP_Cot10 Homo sapiens cDNA clone IMAGE:1161055 3' similar to TR:Q13537 Q13537
9562	22524	35973	4.13	2.0E-31	7681533	NT	MER37 TRANSPOSABLE ELEMENT, COMPLETE CONSENSUS SEQUENCE.
10266	23191	36671	1.13	2.0E-31	AV710948	EST_HUMAN	Homo sapiens B9 protein (B9), mRNA
10268	23191	36678	1.13	2.0E-31	AV710948.1	EST_HUMAN	AV710948 Cu Homo sapiens cDNA clone QJAALEB07 5'
10435	23357	36844	2.57	2.0E-31	BE408611.1	EST_HUMAN	601304125F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638310 5'
10435	23357	36845	2.67	2.0E-31	BE408611.1	EST_HUMAN	601304125F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638310 5'
12427	25195		1.91	2.0E-31	AF148512.1	NT	Homo sapiens hexokinase II gene, promoter region
12566	25987		3.94	2.0E-31	AI114527.1	EST_HUMAN	HA1110 Human fetal liver cDNA library Homo sapiens cDNA
17	13137	26036	11.03	1.0E-31	U93163.1	NT	Homo sapiens IMAGE-B2 (IMAGE-B2), IMAGE-B3 (IMAGE-B3), IMAGE-B4 (IMAGE-B4), and IMAGE-B1 (IMAGE-B1) genes, complete cds
1671	14703	27678	3.34	1.0E-31	O95371	SWISSPROT	OLFATORY RECEPTOR 2C1
1671	14703	27679	3.34	1.0E-31	O95371	SWISSPROT	OLFATORY RECEPTOR 2C1
1671	14703	27680	3.34	1.0E-31	O95371	SWISSPROT	OLFATORY RECEPTOR 2C1
4866	17687	30571	1.35	1.0E-31	AL134376.1	EST_HUMAN	DKFZp547B235.1 547 (synonym: hbr1) Homo sapiens cDNA clone DKFZp547B235 5'
4866	17687	30572	1.35	1.0E-31	AL134376.1	EST_HUMAN	DKFZp547B235.1 547 (synonym: hbr1) Homo sapiens cDNA clone DKFZp547B235 5'
5365	18470	31341	3.75	1.0E-31	AW391679.1	EST_HUMAN	MRS-ST0220-151289-028-408_1 ST0220 Homo sapiens cDNA
6256	19328	32559	2.31	1.0E-31	AF048727.1	NT	Homo sapiens minisatellite ceb1 repeat region
7506	20471	33831	1.08	1.0E-31	AF126145.1	NT	Bos taurus xenobiotic/medium-chain fatty acid CoA ligase form XL-III mRNA, nuclear mRNA encoding mitochondrial protein, complete cds
8132	21069	34468	0.76	1.0E-31	BE972816.1	EST_HUMAN	601652025F1 NIH_MGC_82 Homo sapiens cDNA clone IMAGE:3935293 5'
10596	23518	37009	0.68	1.0E-31	U93163.1	NT	Homo sapiens IMAGE-B2 (IMAGE-B2), IMAGE-B3 (IMAGE-B3), IMAGE-B4 (IMAGE-B4), and IMAGE-B1 (IMAGE-B1) genes, complete cds

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11261	24213	37737	4.06	1.0E-31	AI086434.1	EST_HUMAN	q121h03.x1 NCL CGAP_Bm.25 Homo sapiens cDNA clone IMAGE:1750709 3' similar to TR.Q.0595 Q16955 FRATAxin.1
12103	24674	38571	1.5	1.0E-31	U68061.1	NT	Human geminine T-cell receptor beta chain TCRBV17S1A1T, TCRBV25P1, TCRBV10S1P, TCRBV28S1P, TCRBV16S1P, TCRBV15S1A1T, HVJc relic, TCRBV28S1P, TCRBV34S1, TCRBV14S1, TCRBV3S1, TCRBV4S1A1T, TRV4, TRV5, TRV6, TRV7, TRY8, TORBD1, TORBJ1S1, TORBJ1S2, >
6795	19849	33314	2.13	9.0E-32	AF172937.6	EST_HUMAN	AF172937.6 HTB Homo sapiens cDNA clone HTBAAG001 5'
7598	20559	33919	0.53	9.0E-32	L31770.1	NT	Bos taurus vacuolar H ⁺ -ATPase subunit mRNA, complete cds
7848	20705	38128	0.65	9.0E-32	11430822	NT	Human sapiens hypothetical protein FLJ11294 (FLJ11294), mRNA
2090	15107	28126	3.05	8.0E-32	AI036770.1	EST_HUMAN	cx15a09.s1 Scars, fetal, liver, spleen, 1NFLS_S1 Homo sapiens cDNA clone IMAGE:1675384.3
5559	18065	31601	0.89	8.0E-32	AW697214.1	EST_HUMAN	RC2-BN0048-200300-075-s04 BN0048 Homo sapiens cDNA
4896	17613	30803	1.16	7.0E-32	P52591	SWISSPROT	NUCLEAR ENVELOPE PORE MEMBRANE PROTEIN POM 121 (PORE MEMBRANE PROTEIN OF 121 KDa) (P145)
12405	25176		7.66	7.0E-32	X17283.1	NT	Human chromosome 22 immunoglobulin V(K) gene, part, with 5' breakpoint between orphan and neighbouring non-empiled region
2742	15736	28752	1.2	6.0E-32	AI478104.1	EST_HUMAN	hm34a10.x1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2158994 3' similar to contains MER20.13 MER29 repetitive element;
7501	20552	30562	1.29	6.0E-32	BE888016.1	EST_HUMAN	50161530F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913087 5'
1035	14081	27032	17.73	5.0E-32	AF116627.1	NT	Homo sapiens PRO1181 mRNA, complete cds
931	13984	31085	1.85	4.0E-32	AI163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
7861	20805	34182	3.03	4.0E-32	11432574	NT	Homo sapiens AT-binding transcription factor 1 (ATBF1), mRNA
8702	21910		1	4.0E-32	BE084410.1	EST_HUMAN	Homo sapiens AT-binding transcription factor 1 (ATBF1), mRNA
456	13528	26459	3.32	3.0E-32	Y17293.1	NT	Homo sapiens FLI-1 gene, partial
1448	14481	27458	9.76	3.0E-32	AF171500.1	EST_HUMAN	AF171500 HTF Homo sapiens cDNA clone HTFAKC07 5'
9749	22990	36147	19.97	3.0E-32	AF175863.1	EST_HUMAN	AF175863.4 BM Homo sapiens cDNA clone BMFB8B112 5'
9749	22890	36148	19.97	3.0E-32	AF175863.1	EST_HUMAN	AF175863.4 BM Homo sapiens cDNA clone BMFB8B112 5'
							z98a07.s1 Scars, fetal, liver, spleen, 1NFLS_S1 Homo sapiens cDNA clone IMAGE:448500 3' similar to contains THR13, THR repetitive element;
11270	24222	37747	2.81	3.0E-32	AF177621.1	EST_HUMAN	6014565S1F1 NIH_MGC_96 Homo sapiens cDNA clone IMAGE:3862086 5'
11550	24491		7.46	3.0E-32	BF035327.1	EST_HUMAN	601166285F1 NIH_MGC_261 Homo sapiens cDNA clone IMAGE:33139701 5'
12430	25197		5.4	3.0E-32	BE276886.1	EST_HUMAN	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (vltorax) (Drosophila) homolog; translocated to, 4 (MLL74) mRNA
12766	18336	31283	3.46	3.0E-32	Y1574574	NT	

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E- Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12786	18336	31284	3.46	3.0E-32	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (thioreax (Drosophila) homology), translocated to, 4 (MLL14) mRNA
12937	25517		4.33	3.0E-32	BE279086.1	EST_HUMAN	60116028FT NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3135701 5'
4971	17935	30327	0.97	2.0E-32	BE295613.1	EST_HUMAN	60117331F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3529189 5'
6381	19449	32690	0.87	2.0E-32	NA35418.1	NT	Human cell 124poxycygenase mRNA, complete cds
6624	19682	32959	0.86	2.0E-32	Z38133.1	NT	H-sapiens mRNA for myosin
6624	19682	32960	0.86	2.0E-32	Z38133.1	NT	H-sapiens mRNA for myosin
8621	21589	35006	2.19	2.0E-32	AA114294.1	EST_HUMAN	zr66c08.t1 Straglene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:563160 5'
8621	21589	35007	2.19	2.0E-32	AA114294.1	EST_HUMAN	zr66c08.t1 Straglene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:563160 5'
13049	25589	31983	4.17	2.0E-32	AV738449.1	EST_HUMAN	AV738449 CB Homo sapiens cDNA clone CBFBIA08 5'
13049	25589	31984	4.17	2.0E-32	AV738449.1	EST_HUMAN	AV738449 CB Homo sapiens cDNA clone CBFBIA08 5'
3110	16167		1.07	1.0E-32	BE743299.1	EST_HUMAN	601573207F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3834433 5'
7256	19691	33269	6.73	1.0E-32	11439789	NT	Homo sapiens chromosome 11 open reading frame 9 (CTORF9), mRNA
8943	21909	35334	6.76	1.0E-32	AA720574.1	EST_HUMAN	THR repetitive element
3483	16540		5.7	9.0E-33	BE327112.1	EST_HUMAN	hw07c05.x1 NCL CGAP_LU24 Homo sapiens cDNA clone IMAGE:3182216 3' similar to TR:O88539 O88539 WW DOMAIN BINDING PROTEIN 11.1
6560	19620		3.43	9.0E-33	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
9140	24106	35532	1.82	9.0E-33	BF347226.1	EST_HUMAN	60202116AF1 NCL CGAP_Bln67 Homo sapiens cDNA clone IMAGE:4156570 5'
11150	24110		4.08	9.0E-33	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
63	13182	26098	2.4	7.0E-33	5031736	NT	Homo sapiens short-chain alcohol dehydrogenase family member (HEP27) mRNA
63	13182	26099	2.4	7.0E-33	5031736	NT	Homo sapiens short-chain alcohol dehydrogenase family member (HEP27) mRNA
2169	15185	28206	2.43	7.0E-33	AI590115.1	EST_HUMAN	hw07c05.x1 NCL CGAP_LU2 Homo sapiens cDNA clone IMAGE:2178909 3' similar to contains ORF.t1 ORF repetitive element
2657	15654		7.82	7.0E-33	AV730056.1	EST_HUMAN	AV730056 HTF Homo sapiens cDNA clone HTFAVE08 5'
2841	14737	27719	1.62	7.0E-33	AV730056.1	EST_HUMAN	AV730018 HTF Homo sapiens cDNA clone HTFANF08 5'
3256	16310		16.32	7.0E-33	AW971307.1	EST_HUMAN	EST1983396 MAGe resequences; MAGL Homo sapiens cDNA Human hLRP mRNA for leukocyte common antigen-related peptide (protein-tyrosine phosphatase) (EC 3.1.3.48)
9298	22264		1.07	7.0E-33	X54860.1	NT	60202116AF1 NCL CGAP_Bln67 Homo sapiens cDNA clone IMAGE:4156670 5'
11178	24514	37664	2.89	7.0E-33	BF347226.1	EST_HUMAN	EST1983657 MAGe resequences; MAGL Homo sapiens cDNA
11578	24516	38071	2.65	7.0E-33	AW971568.1	EST_HUMAN	no16h01.s1 NCL CGAP_Phet1 Homo sapiens cDNA clone IMAGE:1100881 3' similar to contains L1.t1 L1 repetitive element
12409	25182	31819	3.85	7.0E-33	AA601416.1	EST_HUMAN	

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3749	18781			6.0E-33	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
6185	18260	32484	1.09	6.0E-33	F03083.1	EST_HUMAN	HSFD21201.HM3 Homo sapiens cDNA clone s4000107.H08
6185	18260	32485	1.09	6.0E-33	F03083.1	EST_HUMAN	HSFD21201.HM3 Homo sapiens cDNA clone s4000107.H08
8925	21891	33319	7.52	6.0E-33	J04038.1	NT	Human glyceraldehyde-3-phosphate dehydrogenase (GAPDH) gene, complete cds
9050	22016	35440	3.18	6.0E-33	11428198	NT	Homo sapiens similar to RAD23 (S. cerevisiae) homolog B (H. sapiens) (LOC63277). mRNA
10371	23294	36769	1.73	6.0E-33	6755609	NT	Mus musculus SRY-box containing gene 6 (Sox6), mRNA
10371	23294	36770	1.73	6.0E-33	6755609	NT	Mus musculus SRY-box containing gene 6 (Sox6), mRNA
1792	14821		1.63	6.0E-33	BF373515.1	EST_HUMAN	QV1-FT0168-107700-371.e02 FT0168 Homo sapiens cDNA
1898	14923		1.27	5.0E-33	11141884	NT	Homo sapiens eukotic carrier family 5 (choline transporter), member 7 (SLC6A7), mRNA
1914	14938	27833	1.31	5.0E-33	4507208	NT	Homo sapiens spermidine synthase (SRM) mRNA
1914	14938	27834	1.31	5.0E-33	4507208	NT	Homo sapiens spermidine synthase (SRM) mRNA
2280	15293		1.49	5.0E-33	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
4087	17121	30015	1.28	5.0E-33	AB014599.1	NT	Homo sapiens mRNA for KIAA0688 protein, partial cds
8823	19877	33186	51.92	5.0E-33	AA189080.1	EST_HUMAN	z44806.g1 Stratiogene hNT neuron (#637283) Homo sapiens cDNA clone IMAGE:632827 3' similar to contains Alu repetitive element
10610	23532	37027	0.85	5.0E-33	AW284679.1	EST_HUMAN	xc33f11.x1 NCL CGAP LU28 Homo sapiens cDNA clone IMAGE:2752461 3'
10610	23532	37028	0.85	5.0E-33	AW284679.1	EST_HUMAN	xc33f11.x1 NCL CGAP LU28 Homo sapiens cDNA clone IMAGE:2752461 3'
1130	14173		0.87	4.0E-33	AL163287.2	NT	Homo sapiens chromosome 21 segment HS21C007
2135	16162	28167	1.53	4.0E-33	4756887	NT	Homo sapiens RAB1, member RAS oncogene family (RAB1) mRNA
2428	15435		2.92	4.0E-33	AA626921.1	EST_HUMAN	ab51b11.1 Stratiogene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:844317 5' similar to contains Alu repetitive element; contains MER28.b2 MER28 repetitive element ;
2552	15554	28574	2.35	4.0E-33	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
4509	17534	30418	1.65	4.0E-33	AW293349.1	EST_HUMAN	U1-HLB2-ah1-c-03-0-J1et NCL CGAP Sub4 Homo sapiens cDNA clone IMAGE:2727149 3'
5477	18578	31487	21.95	4.0E-33	AA053053.1	EST_HUMAN	z71708.t1 Stratiogene colon (#637204) Homo sapiens cDNA clone IMAGE:510038 5' similar to gp-X12871. int1 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HUMAN);
6532	19595	32858	2.14	4.0E-33	8333964	NT	Homo sapiens polymerase (DNA directed), alpha (POLA), mRNA
6532	19595	32858	2.14	4.0E-33	8333964	NT	Homo sapiens polymerase (DNA directed), alpha (POLA), mRNA
10891	14135		6.18	3.0E-33	BE350127.1	EST_HUMAN	h08g01.x1 NCL CGAP Kd13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER28.b3 MER28 repetitive element ;
10891	14135		6.18	3.0E-33	BE350127.1	EST_HUMAN	h08g01.x1 NCL CGAP Kd13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER28.b3 MER28 repetitive element ;
1092	14135		4.81	3.0E-33	BE350127.1	EST_HUMAN	h08g01.x1 NCL CGAP Kd13 Homo sapiens cDNA clone GLCBOCF09 3'
2456	15894		0.91	3.0E-33	AV647851.1	EST_HUMAN	ab32b12.g1 Scapex testis. NHT Homo sapiens cDNA clone IMAGE:1407647 3' similar to TR-Q13579
10806	23727	37228	1.02	3.0E-33	AA861510.1	EST_HUMAN	Q13579 MARINER TRANSPOSASE...;

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
18	13138		0.63	2.0E-33	AI160189.1	EST_HUMAN	q667g03.x1 Scores: fetal heart_NbHH19W Homo sapiens cDNA clone IMAGE:170520.4 3' similar to contains OFR.11 OFR repetitive element;
105	13138		2.93	2.0E-33	AI160189.1	EST_HUMAN	q667g03.x1 Scores: fetal heart_NbHH19W Homo sapiens cDNA clone IMAGE:170520.4 3' similar to contains OFR.11 OFR repetitive element;
4449	17475		4.22	2.0E-33	BE156036.1	EST_HUMAN	q667g03.x1 Scores: fetal heart_NbHH19W Homo sapiens cDNA clone IMAGE:170520.4 3' similar to contains OFR.11 OFR repetitive element;
5021	18035	30920	9.82	2.0E-33	AA626983.1	EST_HUMAN	MR04HT0405-160300-202-408 HT0405 Homo sapiens cDNA
5129	18138	31015	2.58	2.0E-33		EST_HUMAN	gi51711.1 Stragene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:844988 5' similar to g6cX00734_cds1 TUBULIN BETA-4 CHAIN (HUMAN);
5129	18138	31016	2.58	2.0E-33	11421332	NT	Homo sapiens hypothetical protein SIRP-b2 (SIRP-b2), mRNA
5129	18138	31016	2.58	2.0E-33	11421332	NT	Homo sapiens hypothetical protein SIRP-b2 (SIRP-b2), mRNA
6563	19623	32868	1	2.0E-33	AI277492.1	EST_HUMAN	q66d01.x1 Scores: NIHMPU_S1 Homo sapiens cDNA clone IMAGE:1880161 3'
9456	22420		2.29	2.0E-33	AI052256.1	EST_HUMAN	aa214033.x1 Scores: fetal liver_spleen_1NfLS_S1 Homo sapiens cDNA clone IMAGE:1675973 3' similar to g6cX00734_cds1 TUBULIN BETA-4 CHAIN (HUMAN);
10579	23896	37411	0.9	2.0E-33	11421332	NT	Homo sapiens hypothetical protein SIRP-b2 (SIRP-b2), mRNA
10579	23896	37412	0.9	2.0E-33	11421332	NT	Homo sapiens hypothetical protein SIRP-b2 (SIRP-b2), mRNA
9	13129		2.05	1.0E-33	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
5669	18784	31034	0.7	1.0E-33	AF199420.1	NT	Homo sapiens F-box protein FBL4 (FBL4), mRNA, complete cds
7637	20597	33961	1.18	1.0E-33	M13975.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds
10381	26010		0.73	1.0E-33	U60822.1	NT	Human dyshprolin (DVID) gene, exons 7, 8 and 9, and partial cds
11377	24324	37853	1.72	1.0E-33	AV744220.1	EST_HUMAN	AV744220 CB Homo sapiens cDNA clone G80AA411 5'
11850	24587	38157	1.79	1.0E-33	AW996818.1	EST_HUMAN	QV3-BN0047-230200-102-603 BN0047 Homo sapiens cDNA
11873	24851	38448	2.59	1.0E-33	U60822.1	NT	Human dyshprolin (DVID) gene, exons 7, 8 and 9, and partial cds
12885	25352		1.98	1.0E-33	AI927191.1	EST_HUMAN	w638c06.x1 NC1 CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2462410 3'
12852	13126		3.4	1.0E-33	AF03528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
4644	17665		1.17	9.0E-34	BE155575.1	EST_HUMAN	PMH4T0362-181169-001-D02 HT0362 Homo sapiens cDNA
13069	25603		3.44	9.0E-34	AJ271735.1	NT	Homo sapiens Xq pseudocautosomal region: segment 112
2181	15196	28216	0.93	8.0E-34	8922751	EST_HUMAN	Homo sapiens hypothetical protein FLJ10600 (FLJ10600), mRNA
8077	21014	34414	0.49	8.0E-34	BE069882.1	EST_HUMAN	MR4-BT0399-200100-001-103 BT0399 Homo sapiens cDNA
1439	14472	27449	2.93	7.0E-34	T70845.1	EST_HUMAN	x116a05.r1 Scores: fetal liver_spleen_1NfLS Homo sapiens cDNA clone IMAGE:108320 5'
10359	14472	27449	0.6	7.0E-34	T70845.1	EST_HUMAN	y116a05.r1 Scores: fetal liver_spleen_1NfLS Homo sapiens cDNA clone IMAGE:108320 5'
12479	25227		1.69	7.0E-34	H12686.1	EST_HUMAN	y116a05.r1 Scores: placenta_N24P Homo sapiens cDNA clone IMAGE:148722 5'
471	13543	26471	2.11	6.0E-34	U10691.1	NT	Human G2 protein mRNA, partial cds
471	13543	26472	2.11	6.0E-34	U10691.1	NT	Human G2 protein mRNA, partial cds

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12287	25103	31838	1.86	6.0E-34	U03886.1	NT	Mus musculus DAB/21 hair-specific (hac1-1) gene
1897	14922		2.36	5.0E-34	7706500	NT	Homo sapiens Nprx38 binding protein Nprx38 (LOC51729) mRNA
8101	18111	30883	4.68	5.0E-34	U30883.1	NT	Human splicing factor SFR55-1 (SFR55) mRNA, complete cds
9218	22184	35617	1.17	5.0E-34	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
11015	23980	37508	2.03	5.0E-34	AB037856.1	NT	Homo sapiens mRNA for KIAA1435 protein, partial cds
11583	24521		1.49	5.0E-34	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
2014	15035	26046	1.71	4.0E-34	AI604567.1	EST_HUMAN	U9406.x1 NCL CGAP_P-28 Homo sapiens cDNA clone IMAGE:2249194.3
5223	18231	31106	0.64	4.0E-34	AW886252.1	EST_HUMAN	RC5-O10078-260300-025-D02 OT10078 Homo sapiens cDNA
9303	22358	35768	1.07	4.0E-34	BF209778.1	EST_HUMAN	801874960.F1 NIH_MGC_64 Homo sapiens cDNA clone IMAGE:4102213.5
6359	19428	32871	0.74	3.0E-34	M37277.1	NT	Human Ig germline H-chain D-region genes, partial cds
11486	24429		3.18	3.0E-34	BF036327.1	EST_HUMAN	801458533.F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3892086.5
9303	22288	35688	1.93	2.0E-34	AI678101.1	EST_HUMAN	w435906.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2330170.3 similar to contains MER29.12 MER29 repetitive element;
9303	22268	35699	1.93	2.0E-34	AI678101.1	EST_HUMAN	w435906.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2330170.3 similar to contains MER29.12 MER29 repetitive element;
11496	24439	37987	1.57	2.0E-34	P51805	SWISSPROT	PLEXIN 4 PRECURSOR (TRANSMEMBRANE PROTEIN SEX)
11496	24439	37988	1.57	2.0E-34	P51805	SWISSPROT	PLEXIN 4 PRECURSOR (TRANSMEMBRANE PROTEIN SEX)
1505	14538	27510	8.53	1.0E-34	P12266	SWISSPROT	ADP-ATP CARRIER PROTEIN, LIVER ISOFORM T2 (ADP/ATP TRANSLOCASE 3) (ADENINE NUCLEOTIDE TRANSLOCATOR 3) (ANT 3)
3687	16730	29641	1.35	1.0E-34	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
4098	17132	30025	0.81	1.0E-34	AY009397.1	NT	Homo sapiens WNT3 precursor (WNT3) mRNA, complete cds
4098	17132	30026	0.81	1.0E-34	AY009397.1	NT	Homo sapiens WNT3 precursor (WNT3) mRNA, complete cds
4508	17531		6.11	1.0E-34	BE071414.1	EST_HUMAN	RC2-BT0506-240400-016-H08 BT0508 Homo sapiens cDNA
6291	18334	32655	1.98	1.0E-34	BE074052.1	EST_HUMAN	80148430.F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3869999.5
6291	18334	32656	1.98	1.0E-34	BE074052.1	EST_HUMAN	80148430.F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3869999.5
9681	22834	36090	0.46	1.0E-34	P23266	SWISSPROT	OLFACTORY RECEPTOR-LIKE PROTEIN F5
10055	22982	36480	14.47	1.0E-34	AL036685.1	EST_HUMAN	DKFZp664A1563.J1 564 (synonym: hrb2) Homo sapiens cDNA clone DKFZp664A1563.5
11516	24457	38007	1.71	1.0E-34	BE781780.1	EST_HUMAN	801470602.F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3873478.5
11516	24457	38008	1.71	1.0E-34	BE781780.1	EST_HUMAN	801470602.F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3873478.5
11530	24471	38022	3.22	1.0E-34	11439589	NT	Homo sapiens nucleobindin 2 (NUB2), mRNA
12654	25921		1.4	1.0E-34	AA807087.1	EST_HUMAN	cc31c11.x1 NCL CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1351318.3 similar to gb: X68203
12874	25507		4.01	1.0E-34	AL163210.2	NT	TYROSINE-PROTEIN KINASE RECEPTOR FLT4 PRECURSOR (HUMAN); Homo sapiens chromosome 21 segment HS21C010

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top Hit) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3659	16702	28617	1.25	9.0E-35	AW663302.1	EST_HUMAN	h17h06.y1 NCI CGAP_GLI1 Homo sapiens cDNA clone IMAGE:266875
227	13326		13.21	8.0E-35	6031190	NT	Homo sapiens prohibitin (PIB) mRNA
1751	14780	27765	4.47	8.0E-35	BF58937.1	EST_HUMAN	ncs3a08.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3258134 3' similar to TR:O75912
1751	14780	27766	4.47	8.0E-35	BF58937.1	EST_HUMAN	ncs3a08.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3258134 3' similar to TR:O75912
4902	17819	30811	2.91	8.0E-35	BF183195.1	EST_HUMAN	O75912 DIACVLGLYCEROL KINASE IOTA.
11048	24012	37537	1.84	8.0E-35	BE378480.1	EST_HUMAN	ncs3a08.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:4040324 5'
12402	25175		5.41	8.0E-35	BF589282.1	EST_HUMAN	601236468F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608513 5'
6631	19689	32608	1.85	7.0E-35	11425417	NT	6021846241 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300660 3'
1411	14444	27416	0.93	6.0E-35	AA757115.1	EST_HUMAN	Homo sapiens phosphatidylinositol glycan, class L (PIGL) mRNA
1985	15006	28009	2.85	6.0E-35	6005975	NT	ah33h03.s1 Soares_testis_NHT Homo sapiens cDNA clone 1309397 3'
4083	17117	30012	0.76	6.0E-35	AW287191.1	EST_HUMAN	Homo sapiens zinc finger protein 208 (ZNF208) mRNA
8228	21198	34605	3.66	6.0E-35	6005821	NT	UI-H-BWO-d-09-UJ st NCI CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2731433 3'
9058	22024	35447	0.51	6.0E-35	X94232.1	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO) mRNA
9058	22024	35448	0.51	6.0E-35	X94232.1	NT	H sapiens mRNA for novel T-cell activation protein
10025	22952	36420	0.68	6.0E-35	AB002364.1	NT	H sapiens mRNA for novel T-cell activation protein
10263	23188	36672	3.04	6.0E-35	AB037786.1	NT	Human mRNA for KIAA0368 gene, partial cds
1722	14752	27737	61.6	5.0E-35	X63392.1	NT	Homo sapiens mRNA for KIAA1395 protein, partial cds
2795	15787	28805	0.9	5.0E-35	AB007868.2	NT	H sapiens immunoglobulin kappa light chain variable region L1.4
3021	18079	28000	1.47	5.0E-35	6912639	NT	H sapiens mRNA for KIAA006 protein, partial cds
4438	17464	30354	2.05	5.0E-35	AF023268.1	NT	Homo sapiens Ring1 and YY1 binding protein (RYBP) mRNA
4742	17762	30656	0.99	5.0E-35	BE246065.1	EST_HUMAN	Homo sapiens cdk2 kinase (CLK2), protein1, cdk2, glucocorticoidase (GBA), and melanin genes, complete cds; melanin pseudogene and glucocorticoidase pseudogene; and thrombospondin (THBS3) gene, partial cds
8625	21493		4.74	5.0E-35	BE890992.1	EST_HUMAN	TCBPAP1D384.2 Pediatric pro-B cell acute lymphoblastic leukemia Baylor-HGSC project-TCBA Homo sapiens cDNA clone TCBPAP3842
8652	21520	34939	2.2	5.0E-35	AI208765.1	EST_HUMAN	ncs3a08.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:3917229 5'
8552	21520	34940	2.2	5.0E-35	AI208765.1	EST_HUMAN	qg38c05.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:837448 3' similar to SW:Y248 HUMAN Q92539 HYPOTHETICAL PROTEIN KIAA0249.
11512	24453		2.39	5.0E-35	AA01786.1	EST_HUMAN	qg38c05.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:837448 3' similar to SW:Y248 HUMAN Q92539 HYPOTHETICAL PROTEIN KIAA0249.
1429	14463	27440	19.86	4.0E-35	BE257907.1	EST_HUMAN	SW:Y248 HUMAN Q92539 HYPOTHETICAL PROTEIN KIAA0249.
							2844F12.1 Soares_fetal_liver_spleen_INFILIS ST Homo sapiens cDNA clone IMAGE:428016 5'
							601109719F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350405 5'

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1835	14862	27859	7.51	4.0E-35	H91193.1	EST_HUMAN	yu98d07.1 Scores fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:241238 5' similar to contains PIR6 repetitive element ;
4944	17881		0.63	4.0E-35	AF003528.1	NT	Homo sapiens X-linked arylidic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
5145	18164		0.93	4.0E-35	BE409102.1	EST_HUMAN	601300705F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635401 5'
7416	20383		1.81	4.0E-35	BE330127.1	EST_HUMAN	h09601.x1 NCI_CGAP_Kdr33 Homo sapiens cDNA clone IMAGE:3140266 3' similar to contains MER28.b3
8993	21830	35253	8.37	4.0E-35	AL046596.1	EST_HUMAN	MER28 repetitive element ;
1593	14615	27588	21.76	3.0E-35	BE268182.1	EST_HUMAN	DKFZp434L148.1 1434 (synonym: hess3) Homo sapiens cDNA clone DKFZp434L148 5'
2338	15349		3.38	3.0E-35	AF224492.1	NT	601125280F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3345003 5'
							Homo sapiens phospholipid scramblase 1 gene, complete cds
5413	18516	31393	27.9	3.0E-35	BF433100.1	EST_HUMAN	7n25d09.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3565381 3' similar to TR.Q9QZ17
5413	18516	31394	27.9	3.0E-35	BF433100.1	EST_HUMAN	Q9QZ17 F-BOX PROTEIN FBL2 ;
9844	22780		1.71	3.0E-35	AF223391.1	NT	7n25d09.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3565381 3' similar to TR.Q9QZ17
10535	23457	36954	0.93	3.0E-35	AW003063.1	EST_HUMAN	Q9QZ17 F-BOX PROTEIN FBL2 ;
							Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
108	15532	26146	0.83	2.0E-35	N68955.1	EST_HUMAN	w03d05.x1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE:2480432 3' similar to SW:POL.1_HUMAN
1192	14232	27188	1.39	2.0E-35	T11909.1	EST_HUMAN	P10266 RETROVIRUS-RELATED POL POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE ;
2227	15241	28296	5.04	2.0E-35	AB018413.1	NT	K8822F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone K6932 5' similar to
							REPETITIVE ELEMENT
2693	15689	28706	1	2.0E-35	AW655005.1	EST_HUMAN	A971F Heart Homo sapiens cDNA clone A971
3323	16374	29294	0.93	2.0E-35	6912459	NT	Homo sapiens mRNA for Gab2, complete cds
3323	16374	29295	0.93	2.0E-35	6912459	NT	h06d12.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2979166 3' similar to
3570	16615		1.06	2.0E-35	AB020702.1	NT	SW:TR12_HUMAN_Q14689 THYROID RECEPTOR INTERACTING PROTEIN 12 ;
							Homo sapiens Gb2-associated binder 2 [KIA00571], mRNA
							Homo sapiens Gb2-associated binder 2 [KIA00571], mRNA
							Homo sapiens mRNA for KIA00895 protein, partial cds
							TCBAP254328 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HQSC project=TCBA Homo sapiens
3930	16970	29883	1.42	2.0E-35	BE247575.1	EST_HUMAN	cDNA clone TCBAP4328
3930	16970	29884	1.42	2.0E-35	BE247575.1	EST_HUMAN	TCBAP254328 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HQSC project=TCBA Homo sapiens
4697	17718		2.65	2.0E-35	H49239.1	EST_HUMAN	cDNA clone TCBAP4328
5632	18758	31926	1.8	2.0E-35	BF332417.1	EST_HUMAN	y419a12.1 Scores fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:274079 5'
							QV0-BT0701-210400-196-504 BT0701 Homo sapiens cDNA

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Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7311	20282	33622	0.65	2.0E-35	BE832636.1	EST_HUMAN	GM2-MT0125-280700-287 G02 MT0125 Homo sapiens cDNA
7311	20282	33623	0.65	2.0E-35	BE832636.1	EST_HUMAN	GM2-MT0125-280700-287 G02 MT0125 Homo sapiens cDNA
11148	24108	37694	11.23	2.0E-35	XG9417.1	NT	H.sapiens PROS-27 mRNA
12158	16374	29294	2.39	2.0E-35	6012459	NT	H.sapiens Gm2-associated binder 2 (KIA00871), mRNA
12158	16374	29295	2.39	2.0E-35	6012459	NT	H.sapiens Gm2-associated binder 2 (KIA00871), mRNA
12340	25138	31851	1.47	2.0E-35	BE904978.1	EST_HUMAN	Homo sapiens Gm2-associated binder 2 (KIA00871), mRNA
12340	25138	31852	1.47	2.0E-35	BE904978.1	EST_HUMAN	Homo sapiens Gm2-associated binder 2 (KIA00871), mRNA
12684	25482		7.66	2.0E-35	AL163210.2	NT	Homo sapiens chromosome 21 segment H82(C010)
12973	15632	26146	1.72	2.0E-35	N88985.1	EST_HUMAN	K6932F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone K6932 5' similar to REPETITIVE ELEMENT
48	13168	26073	5.26	1.0E-35	AA631949.1	EST_HUMAN	frnf16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CRT12-1
48	13168	26074	5.26	1.0E-35	AA631949.1	EST_HUMAN	frnf16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CRT12-1
753	13814	28756	95.25	1.0E-35	AW389473.1	EST_HUMAN	IL2-ST0162-131059-006-d12 ST0162 Homo sapiens cDNA
753	13814	28757	95.25	1.0E-35	AW389473.1	EST_HUMAN	IL2-ST0162-131059-006-d12 ST0162 Homo sapiens cDNA
910	13965		0.99	1.0E-35	T87947.1	EST_HUMAN	yB3a01.11 Soares fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:115752 5' similar to SP-A44282 A44282 RETROVIRUS-RELATED POLYPROTEIN - HUMAN ;
2549	15550	28571	3.02	1.0E-35	7705904	NT	Homo sapiens hypodermal protein (LOC51233), mRNA
2778	15770	28780	1.85	1.0E-35	BE350127.1	EST_HUMAN	H09d01.x1 NCI CGAP Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element;
2778	15770	28791	1.85	1.0E-35	BE350127.1	EST_HUMAN	H09d01.x1 NCI CGAP Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element;
3177	16232	29148	3.44	1.0E-35	AV650422.1	EST_HUMAN	AV650422 GLC Homo sapiens cDNA clone GLCCEP06 3'
3177	16232	29149	3.44	1.0E-35	AV650422.1	EST_HUMAN	AV650422 GLC Homo sapiens cDNA clone GLCCEP06 3'
4452	17478	30365	4.04	1.0E-35	7659005	NT	Mus musculus actin receptor interacting protein 1 (Aip1-pending), mRNA
4452	17478	30366	4.04	1.0E-35	7659005	NT	Mus musculus actin receptor interacting protein 1 (Aip1-pending), mRNA
5583	18684	31653	1.54	1.0E-35	11526238	NT	Homo sapiens actin receptor interacting factor 1, subunit B (p69) (CHAF1B), mRNA
7189	18420	31221	0.59	1.0E-35	AW808665.1	EST_HUMAN	MRI-ST0111-111198-011-407 ST0111 Homo sapiens cDNA
7189	18420	31222	0.59	1.0E-35	AW808665.1	EST_HUMAN	MRI-ST0111-111198-011-407 ST0111 Homo sapiens cDNA
7723	20681	34245	0.83	1.0E-35	AB033105.1	NT	Homo sapiens mRNA for KIAA1279 protein, partial cds
7803	20846	34231	0.94	1.0E-35	11418002	NT	Homo sapiens KIAA0845 gene product (KIA00845), mRNA
9900	25699	36312	3.17	1.0E-35	AU158595.1	EST_HUMAN	AU158595 PLACE3 Homo sapiens cDNA clone PLACE3000382 3'
9900	25699	36313	3.17	1.0E-35	AU158595.1	EST_HUMAN	AU158595 PLACE3 Homo sapiens cDNA clone PLACE3000382 3'
10942	23882	37377	0.63	1.0E-35	BF589594.1	EST_HUMAN	na00406.x1 NCI CGAP Pr28 Homo sapiens cDNA clone IMAGE:3254051 3' similar to TR-O31341 O31341 BETA-GALACTOSIDASE ;

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10942	23862	37378	0.63	1.0E-35	BF589594.1	EST_HUMAN	nc006008.x1 NCI_CGAP_P28 Homo sapiens cDNA clone IMAGE:3254051 3' similar to TR:031341
12052	24925	38522	1.72	1.0E-35	AB028980.1	NT	O31341 BETA-GALACTOSIDASE, ;
12052	24925	38523	1.72	1.0E-35	AB028980.1	NT	Homo sapiens mRNA for KIAA1057 protein, partial cds
12057	24930		1.69	1.0E-35	A1525119.1	EST_HUMAN	Homo sapiens mRNA for KIAA1057 protein, partial cds
12188	26887		1.71	1.0E-35	11418274	NT	prominase-7, D01.1, bivalutor Homo sapiens cDNA 5'
12320	15550	28571	1.42	1.0E-35	7705694	NT	Homo sapiens fluvium 1 (FBLN1), mRNA
12404	25177		1.77	1.0E-35	11418110	NT	Homo sapiens hypodermal protein (LOC51233), mRNA
12747	25398		1.97	1.0E-35	BE792832.1	EST_HUMAN	Homo sapiens casein kinase 1, epsilon (CSNK1E), mRNA
4011	17060	28956	2.35	9.0E-36	AW821707.1	EST_HUMAN	601184833F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3948686 5'
6123	19201	32426	0.75	8.0E-36	X76479.1	NT	RCS-3 ST0315-160200-013-112 ST0315 Homo sapiens cDNA
6585	22547	35898	0.61	8.0E-36	AA348480.1	EST_HUMAN	B bovis BBSa mRNA for scd6n
10516	23438		0.45	8.0E-36	7706259	NT	EST54698 Hippocampus II Homo sapiens cDNA 5' end similar to endogenous retrovirus 9, 5'LTR
2942	16900	28923	1.68	7.0E-36	AW857579.1	EST_HUMAN	Homo sapiens CGI-09 protein (LOC51605), mRNA
3135	16192		4.05	7.0E-36	4557498	NT	GM1-CT0315-061299-083-067 CT0315 Homo sapiens cDNA
7916	20859	34247	6.21	7.0E-36	U08672.1	NT	Homo sapiens C-terminal binding protein 2 (CTBP2) mRNA
7916	20859	34248	6.21	7.0E-36	U08672.1	NT	Homo sapiens C-terminal binding protein 2 (CTBP2) mRNA
12558	25278	31178	2.01	7.0E-36	AF052551.1	NT	Human carcinosarcoma antigen gene family member 12 (CGM12) gene, exon L and LN
2021	15042	28063	4.16	6.0E-36	7706622	NT	Human carcinosarcoma antigen gene family member 12 (CGM12) gene, exon L and LN
2427	15434		5.3	6.0E-36	AB035346.1	NT	Homo sapiens glutathione transferase A4 gene, exon 1
3653	16698	29811	1.88	8.0E-36	BF515101.1	EST_HUMAN	Homo sapiens ninjurin 2 (NINJ2), mRNA
5404	18507	31384	5.66	6.0E-36	A1435169.1	EST_HUMAN	Homo sapiens TGL6 gene, exon 12
7316	20287	33929	3.48	6.0E-36	AW780143.1	EST_HUMAN	U1-HBW1-antec-12-01at NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083542 3'
8899	21655	35360	2.51	6.0E-36	AF203161.1	EST_HUMAN	h63065.x1 Scara5_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2126185 3' similar to
10585	23507		0.6	6.0E-36	C16927.1	EST_HUMAN	h63065.x1 Scara5_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2126185 3' similar to
11874	24756	38339	3.61	6.0E-36	A1380496.1	EST_HUMAN	h63065.x1 Scara5_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2126185 3' similar to
12963	25804	31236	1.9	6.0E-36	BE737154.1	EST_HUMAN	h63065.x1 Scara5_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2126185 3' similar to
138	13243	28173	12.86	5.0E-36	A1271735.1	NT	h63065.x1 Scara5_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2126185 3' similar to
2761	15763	28773	12.8	5.0E-36	BE386438.1	EST_HUMAN	h63065.x1 Scara5_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2126185 3' similar to
3626	16669	28581	1.32	5.0E-36	AL163209.2	NT	h63065.x1 Scara5_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2126185 3' similar to

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Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	OPF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4827	17844	30743	1.21	5.0E-36	5729729	NT	Homo sapiens APB-like 1 (APB1), mRNA
4827	17844	30744	1.21	5.0E-36	5729729	NT	Homo sapiens APB-like 1 (APB1), mRNA
8070	21007	34408	0.77	5.0E-36	11079227	NT	Homo sapiens N-ethylmaleimide-sensitive factor (NSF), mRNA
12156	13243	26173	2.97	5.0E-36	AJ271735.1	NT	Homo sapiens Xg pseudocytosol region, segment 1/2
12455	25214	31832	3.03	5.0E-36	11417882	NT	Homo sapiens calcitriol binding protein 1 (KIA0330), mRNA
1228	14286	27223	1.24	4.0E-36	BE010038.1	EST_HUMAN	PM5.BN0176-10040-001-g04.BN0176 Homo sapiens cDNA
1436	14469	27447	0.96	4.0E-36	P10266	SWISSPROT	RETROVIRUS-RELATED POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE; ENDONUCLEASE]
1652	14684	27658	1.63	4.0E-36	BE382574.1	EST_HUMAN	6017269574F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3628386 5'
2231	15245		1.64	4.0E-36	AW247772.1	EST_HUMAN	2821020.5pime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2820020 5'
3365	16415	29340	0.65	4.0E-36	BE386239.1	EST_HUMAN	601282266F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604168 5'
3365	16415	29341	0.65	4.0E-36	BE386239.1	EST_HUMAN	601282266F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604168 5'
4786	17804	30896	0.71	4.0E-36	AL163204.2	NT	Homo sapiens chromosome 21 segment HS210004
5904	18895		0.96	4.0E-36	RG4023.1	EST_HUMAN	y11905.f1 Scores placenta NB21P Homo sapiens cDNA clone IMAGE:139713 5'
6173	19248	32481	2.48	4.0E-36	11497041	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), transcript variant 3, mRNA
7915	20858	34248	1.74	4.0E-36	M53320.1	NT	Human platelet Glycoprotein IIb (GP1Ib) gene, exons 2-29
8901	21867	35290	1.2	4.0E-36	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
8901	21867	35291	1.2	4.0E-36	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
11332	24282	37806	1.8	4.0E-36	AA400370.1	EST_HUMAN	z169c10.r1 Scores, testis, NHT Homo sapiens cDNA clone IMAGE:743250 5'
12471	26220		1.86	4.0E-36	11420516	NT	Homo sapiens nuclear factor of activated T-cells, cytoplasmic 2 (NFATC2), mRNA
12515	25768		8.26	4.0E-36	AV753629.1	EST_HUMAN	AV753629.TP Homo sapiens cDNA clone TPGAB101 5'
687	17359	26891	3.9	3.0E-36	AF06810.1	NT	Homo sapiens nucleolin II-alpha gene, partial cds
1497	14630	27502	0.97	3.0E-36	AF110239.1	NT	Homo sapiens calcium/calmodulin-stimulated cyclic nucleotide phosphodiesterase (PDE1A) gene, partial cds
1497	14630	27503	0.97	3.0E-36	AF110239.1	NT	Homo sapiens calcium/calmodulin-stimulated cyclic nucleotide phosphodiesterase (PDE1A) gene, partial cds
4530	17654	30442	6.81	3.0E-36	10181139	NT	Mus musculus junctophilin 1 (Jp1), pending, mRNA
3184	18239	29157	2.17	2.0E-36	BE259287.1	EST_HUMAN	601106343F1 NIH_MGC_76 Homo sapiens cDNA clone IMAGE:3342706 5'
4596	18011	30898	8.63	2.0E-36	AW860376.1	EST_HUMAN	QVO-070030-240300-174-H04 OT0030 Homo sapiens cDNA
5563	18690	31606	2.52	2.0E-36	AF267747.1	NT	Mus musculus p47-phox gene, complete cds
5948	19034	32227	3.89	2.0E-36	AF08756.1	EST_HUMAN	EST006648 Infant Brain, Bonto Scores Homo sapiens cDNA clone HBBJ28 5' end
5948	19034	32227	3.89	2.0E-36	AF08756.1	EST_HUMAN	EST006648 Infant Brain, Bonto Scores Homo sapiens cDNA clone HBBJ28 5' end
6728	19784	33063	12.4	2.0E-36	T68629.1	EST_HUMAN	y44407.r1 Strabagena liver (8937224) Homo sapiens cDNA clone IMAGE:83508 5'
9743	20684	36138	0.62	2.0E-36	BF512784.1	EST_HUMAN	UHH-BW1-ama-r-11-Q-U1st NCI CGAP SubT Homo sapiens cDNA clone IMAGE:3071132 3'
9607	22728	36184	0.57	2.0E-36	4507848	NT	Homo sapiens ubiquitin specific protease 13 (USP13), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9907	22728	36185	0.57	2.0E-36	4507848	NT	Homo sapiens ubiquitin specific protease 13 (lipoisopeptidase 1-3) (USP13) mRNA
888	13941	28899	2.74	1.0E-36	BE409310.1	EST_HUMAN	601300958F.1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5'
2155	15171	28189	1.06	1.0E-36	BE146523.1	EST_HUMAN	RC1-HT0217-131199-021-H07 HT0217 Homo sapiens cDNA
2155	15171	28190	1.08	1.0E-36	BE146523.1	EST_HUMAN	RC1-HT0217-131199-021-H07 HT0217 Homo sapiens cDNA
2212	15227	28248	1.35	1.0E-36	BF673761.1	EST_HUMAN	602130493F.1 NIH_MGC_33 Homo sapiens cDNA clone IMAGE:4272866 5'
3355	18408		1.34	1.0E-36	AF156962.1	NT	Homo sapiens human endogenous retrovirus W proC8-19 protease (pro) gene, partial cds
5818	18908	32092	0.82	1.0E-36	AL044488.1	EST_HUMAN	DKFZ434G022.1 J.434 (Synonym: Hs33) Homo sapiens cDNA clone DKFZ434G022 5'
6003	19088	32286	1.3	1.0E-36	4827064	NT	Homo sapiens zinc finger protein 147 (estrogen-responsive finger protein) (ZNF147) mRNA
6307	19378		3.86	1.0E-36	AI867714.1	EST_HUMAN	W637612.X1 NCL_CGAP_GCB Homo sapiens cDNA clone IMAGE:2307862 3' similar to contains Alu repetitive element
6529	19592	32852	1.34	1.0E-36	R25012.1	EST_HUMAN	Y636g10.r1 Scores Infant brain 1N1B Homo sapiens cDNA clone IMAGE:34529 5' similar to SP-CAHP_HUMAN P35219 CARBONIC ANHYDRASE-RELATED PROTEIN 1
6529	19592	32853	1.34	1.0E-36	R25012.1	EST_HUMAN	Y636g10.r1 Scores Infant brain 1N1B Homo sapiens cDNA clone IMAGE:34529 5' similar to SP-CAHP_HUMAN P35219 CARBONIC ANHYDRASE-RELATED PROTEIN 1
6839	19892	33187	0.7	1.0E-36	AL120542.1	EST_HUMAN	DKFZ6761A229.r1 781 (Synonym: humy2) Homo sapiens cDNA clone DKFZ6761A229 5'
8293	21262	34671	2.77	1.0E-36	AA148034.1	EST_HUMAN	z651a12.r1 Striatum endothelial cell 937223 Homo sapiens cDNA clone IMAGE:590398 5'
8293	21262	34672	2.77	1.0E-36	AA148034.1	EST_HUMAN	z651a12.r1 Striatum endothelial cell 937223 Homo sapiens cDNA clone IMAGE:590398 5'
8368	21357	34764	1.15	1.0E-36	AA420467.1	EST_HUMAN	nc60408.r1 NCL_CGAP_P1 Homo sapiens cDNA clone IMAGE:745670
8368	21357	34765	1.15	1.0E-36	AA420467.1	EST_HUMAN	nc60408.r1 NCL_CGAP_P1 Homo sapiens cDNA clone IMAGE:745670
8520	21488	34902	0.48	1.0E-36	AU141688.1	EST_HUMAN	AU141688 THYROT Homo sapiens cDNA clone THYROT1001033 5'
8520	21488	34903	0.48	1.0E-36	AU141688.1	EST_HUMAN	AU141688 THYROT Homo sapiens cDNA clone THYROT1001033 5'
9584	22349	35781	2.72	1.0E-36	AW103658.1	EST_HUMAN	xs82507.X1 NCL_CGAP_Bm35 Homo sapiens cDNA clone IMAGE:2814357 3'
10473	23395	36992	3.95	1.0E-36	BF394169.1	EST_HUMAN	QV35-NN1023-010600-189-N01 NN1023 Homo sapiens cDNA
10591	23813	37107	0.85	1.0E-36	AW855688.1	EST_HUMAN	RC3-C70279-040500-017-110 CT0279 Homo sapiens cDNA
10591	23813	37108	0.85	1.0E-36	AW855688.1	EST_HUMAN	RC3-C70279-040500-017-110 CT0279 Homo sapiens cDNA
11284	24244	37771	2.84	1.0E-36	AW897696.1	EST_HUMAN	GMS-NN0061-140400-147-412 NN0061 Homo sapiens cDNA
11709	24574	38251	2.58	1.0E-36	AW504143.1	EST_HUMAN	UI-HF-BNO-ale-c-03-03-UI-HF NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076277 5'
12338	25136		5.51	1.0E-36	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
12777	25414		4.97	1.0E-36	AL163213.2	NT	Homo sapiens chromosome 21 segment HS210013
13034	25679		4.02	1.0E-36	AF202723.1	NT	Homo sapiens Sadf1 unc-48 domain protein 2 (SUN2) mRNA, partial cds
7607	20568	33926	2.3	9.0E-37	AW009277.1	EST_HUMAN	W680807.X1 NCL_CGAP_C03 Homo sapiens cDNA clone IMAGE:2604246 3'
7607	20568	33930	2.3	9.0E-37	AW009277.1	EST_HUMAN	W680807.X1 NCL_CGAP_C03 Homo sapiens cDNA clone IMAGE:2604246 3'
3366	18416	29342	1.17	8.0E-37	4757979	NT	Homo sapiens chimerin (chimerin) 2 (CHN2) mRNA
5323	18426		1.6	8.0E-37	BE698077.1	EST_HUMAN	GMAP-UT0003-050800-503-489 UT0003 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5927	19013	32205	3.73	8.0E-37	BE950127.1	EST_HUMAN	h09g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29 b3 MER29 repetitive element:
5927	19013	32206	3.73	8.0E-37	BE950127.1	EST_HUMAN	h09g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29 b3 MER29 repetitive element:
5977	19052	32283	6.05	8.0E-37	AW840640.1	EST_HUMAN	RC1-CN0008-270100-012-c09_1 CN0008 Homo sapiens cDNA H sapiens DMA, DMB, HLA-Z1, IP22, LMP2, TAP2, DOB, DOB2 and RING38, 9, 13 and 14 genes
8218	21185	34595	6.98	8.0E-37	X87344.1	NT	DKFZp434E0422_1 434 (synonym: hsa3) Homo sapiens cDNA clone DKFZp434E0422 5'
1289	14324		2.33	7.0E-37	AL042800.1	EST_HUMAN	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
1759	14788	27773	0.92	7.0E-37	AF111167.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
1759	14788	27774	0.92	7.0E-37	AF111167.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
5161	18170	31049	1.56	7.0E-37	AW068823.1	EST_HUMAN	EST380598 IMAGE:3146256 3' similar to contains MER29 b3 MER29 repetitive element:
11109	24069	37591	8.45	7.0E-37	AI817700.1	EST_HUMAN	wk26r11.x1 NCI_CGAP_Bim25 Homo sapiens cDNA clone IMAGE:2413341 3' similar to contains PTR5.02 PTR5 repetitive element:
11241	24194	37712	1.93	7.0E-37	AI536702.1	EST_HUMAN	h087g03.x1 NCI_CGAP_Bim25 Homo sapiens cDNA clone IMAGE:2165140 3' similar to contains L1.b3 L1 repetitive element:
8762	21749	35171	0.59	6.0E-37	AF169869.1	NT	Homo sapiens probocadherin alpha 10 alternate isoform (PCDH.alpha10) mRNA, complete cds
12903	25487		3.58	6.0E-37	AF202723.1	NT	Homo sapiens Srd1 unc-84 domain protein 2 (SUN2) mRNA, partial cds
8212	19286	32518	4.33	5.0E-37	AA307123.1	EST_HUMAN	EST178035 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end
6212	19286	32519	4.33	5.0E-37	AA307123.1	EST_HUMAN	EST178035 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end
9109	22075	35501	0.88	5.0E-37	AV750211.1	EST_HUMAN	AV750211 NPG Homo sapiens cDNA clone NPOBGH06 5'
11265	24217		3.87	5.0E-37	7667117	NT	Homo sapiens glycine C-acetyltransferase (2-amino-3-ketobutyrate-CoA ligase) (GCAT), mRNA
12333	25183		6.43	5.0E-37	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
2431	19438	28455	2.41	4.0E-37	AA702794.1	EST_HUMAN	2890604.s1 Soares fetal liver spleen, rINFLS_S1 Homo sapiens cDNA clone IMAGE:448016 3'
4914	17831	30728	1.05	4.0E-37	MI0976.1	NT	Homo sapiens endogenous retroviral DNA (4-1), complete retroviral segment
5268	18275		0.93	4.0E-37	N62051.1	EST_HUMAN	EST157210 WAI MT Homo sapiens cDNA clone 52g10 similar to human STS G04101
6419	19489	32735	0.59	4.0E-37	AV754502.1	EST_HUMAN	RC8-UM00714-210200-021-H05 UM0014 Homo sapiens cDNA
9711	22864	36121	0.57	4.0E-37	AA843806.1	EST_HUMAN	al09c02.s1 Soares parathyroid tumor, NbsHPA Homo sapiens cDNA clone IMAGE:1495442 3'
2033	15052	28068	3.07	3.0E-37	AL048956.1	EST_HUMAN	DKFZp434L2418_1 434 (synonym: hsa3) Homo sapiens cDNA clone DKFZp434L2418
2033	15052	28069	3.07	3.0E-37	AL048956.1	EST_HUMAN	DKFZp434L2418_1 434 (synonym: hsa3) Homo sapiens cDNA clone DKFZp434L2418
2519	15522		1.74	3.0E-37	AW961150.1	EST_HUMAN	EST1373222 IMAGE:3146256 3' similar to contains MER29 b3 MER29 repetitive element:
2875	16034		3.71	3.0E-37	AW961150.1	EST_HUMAN	EST1373222 IMAGE:3146256 3' similar to contains MER29 b3 MER29 repetitive element:
5964	19049	32250	0.73	3.0E-37	AL138274.1	EST_HUMAN	DKFZp547G067_1 547 (synonym: h0b1) Homo sapiens cDNA clone DKFZp547G067 5'

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7804	20754	34130	0.75	3.0E-37	A17499.52.1	EST_HUMAN	#14005.x1 Barstead colon HPLR97 Homo sapiens cDNA clone IMAGE:2373896 3' similar to TR-Q13537 Q13537 SIMILAR TO POGO ELEMENT.
381	13494	26426	3.06	2.0E-37	D69790.1	NT	Homo sapiens mRNA for AML1, complete cds
381	13494	26427	3.06	2.0E-37	D69790.1	NT	Homo sapiens mRNA for AML1, complete cds
1082	14128	27078	2.49	2.0E-37	AU131202.1	EST_HUMAN	AU131202.NT2RP3 Homo sapiens cDNA clone NT2RP3002166 5'
1082	14128	27080	2.49	2.0E-37	AU131202.1	EST_HUMAN	AU131202.NT2RP3 Homo sapiens cDNA clone NT2RP3002166 5'
1981	15002	28005	2.43	2.0E-37	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
3908	16948	29859	5.24	2.0E-37	4603210	NT	Homo sapiens cytochrome P450, subfamily XXVIA (steroid 27-hydroxylase, cerebrotendinous xanthomatosis), polypeptide 1 (CYP27A1b) mRNA
5462	18564		0.74	2.0E-37	BF035327.1	EST_HUMAN	60145853F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862089 5'
6696	19753	33030	0.55	2.0E-37	11980617	NT	Homo sapiens mouse thiamin pyrophosphokinase homolog (TPKT), mRNA
8816	19870	33159	3.92	2.0E-37	AA346720.1	EST_HUMAN	EST52831 Field heart II Homo sapiens cDNA 5' end
8329	21298	34713	0.51	2.0E-37	BE537764.1	EST_HUMAN	601067534F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3453657 5'
8329	21298	34714	0.51	2.0E-37	BE537764.1	EST_HUMAN	601067534F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3453657 5'
8372	21341	34752	3.33	2.0E-37	BF204032.1	EST_HUMAN	601809157F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4111406 5'
11885	24768	38933	8.89	2.0E-37	AF176013.1	NT	Homo sapiens J domain containing protein 1 isoform b (JOP1) mRNA, complete cds
12738	25607		1.51	2.0E-37	11417672	NT	Homo sapiens pectadillo (zebrafish) homolog 1, containing BRCT domain (PEST), mRNA
13074	25607		4.69	2.0E-37	11417672	NT	Homo sapiens pectadillo (zebrafish) homolog 1, containing BRCT domain (PEST), mRNA
2058	15116	28138	5.41	1.0E-37	AL163281.2	NT	Homo sapiens chromosome 21 segment HS21C081
3985	17025	29506	4.56	1.0E-37	AF168011.1	NT	Homo sapiens chorundecase III (RNS) mRNA, complete cds
4191	17222	30111	1.09	1.0E-37	BE872665.1	EST_HUMAN	601448616F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3852652 5'
4878	17693	30882	2.21	1.0E-37	BF37119.1	EST_HUMAN	QV6-FR0180-286700-318-c10 FN0180 Homo sapiens cDNA
6119	19197		1.01	1.0E-37	7205360	NT	Mus musculus obetulin (Obg), mRNA
8557	21525	34943	0.7	1.0E-37	BE546032.1	EST_HUMAN	601072410F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3458303 5'
9087	22063	35478	3.45	1.0E-37	AA171408.1	EST_HUMAN	zp21002.1 Stratagene neuroepithelium (#8937231) Homo sapiens cDNA clone IMAGE:610059 5' similar to contains L1, L2 L1 respective element.
10871	22981	37405	0.44	1.0E-37	AV730743.1	EST_HUMAN	AV730743 HTF Homo sapiens cDNA clone HTFAHG10 5'
11056	24019	37542	2.07	1.0E-37	M22978.1	NT	Human sorbiclic cytochrome c (HCT) processed pseudogene, complete cds
12646	25329		4.28	1.0E-37	BE771614.1	EST_HUMAN	Q143-FT0098-140700-245-407 FT0096 Homo sapiens cDNA
9572	18961	32150	1.67	9.0E-38	10048482	NT	Rattus norvegicus multidomain presynaptic cytomatrix protein Piccolo (LOC560766), mRNA
1226	14284	27221	1.85	8.0E-38	114398955	NT	Homo sapiens Grb2-associated binder 2 (KIAA0571), mRNA
2506	15509	26536	2.16	8.0E-38	BF346221.1	EST_HUMAN	802018407F1 NC1_OGAP_Bm67 Homo sapiens cDNA clone IMAGE:4153992 5'
12698	14284	27221	1.44	8.0E-38	114398955	NT	Homo sapiens Grb2-associated binder 2 (KIAA0571), mRNA
3055	18112	29027	1.88	6.0E-38	BF030333.1	EST_HUMAN	601445572F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3859348 5'

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5670	18765	31935	1.46	6.0E-38	11425114	NT	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
5670	18765	31938	1.48	6.0E-38	11425114	NT	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
7650	20513	33871	0.51	6.0E-38	8823130	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
7613	20573	33938	0.74	6.0E-38	AJ010969.1	NT	Homo sapiens mRNA for potassium channel K4.2
7613	20573	33937	0.74	6.0E-38	AJ010969.1	NT	Homo sapiens mRNA for potassium channel K4.2
12189	25035		3.19	6.0E-38	11435947	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
12677	25347	31765	18.01	6.0E-38	AB002059.1	NT	Homo sapiens DNA for Human P20M, complete cds
13052	25733	31616	1.66	6.0E-38	11418164	NT	Homo sapiens adenylsuccinate lyase (ADSL), mRNA
728	13789	28724	1.28	5.0E-38	AW971819.1	EST_HUMAN	EST363083 MAGE sequences, MAGE, Homo sapiens cDNA
2460	15464	28487	1.24	5.0E-38	AJ237740.1	NT	Homo sapiens RIBIR gene (partial), exon 8
7228	20250	33584	1.8	5.0E-38	BE871610.1	EST_HUMAN	G01490148F1 NIH_JMGC_85 Homo sapiens cDNA clone IMAGE:3854074 5'
119	13228	28154	3.65	4.0E-38	Z25468.1	NT	B. taurus mitochondrial aspartate aminotransferase mRNA, complete CDS
119	13228	28155	3.65	4.0E-38	Z25468.1	NT	B. taurus mitochondrial aspartate aminotransferase mRNA, complete CDS
2110	15127		3.98	3.0E-38	AJ003530.1	NT	Homo sapiens homeobox protein CDX4 (CDX4) gene, complete cds and flanking repeat regions
3710	18753		1.24	3.0E-38	7549807	NT	Homo sapiens HIRA interacting protein 4 (Hira-Like) (HIRA4), mRNA
3869	18908	29817	1.88	3.0E-38	P53538	SWISSPROT	SSU72 PROTEIN
3869	18908	29818	1.68	3.0E-38	P53538	SWISSPROT	SSU72 PROTEIN
6917	25871	33284	7.63	3.0E-38	AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
7465	20421	33776	0.6	3.0E-38	AW302461.1	EST_HUMAN	Y64401.1X1 NCJ_CGAP_Brn53 Homo sapiens cDNA clone IMAGE:2827009 3'
7832	20780		0.57	3.0E-38	AA378327.1	EST_HUMAN	EST91188 Synovial sarcoma Homo sapiens cDNA 5' end
7844	20791	34167	6.28	3.0E-38	BF375624.1	EST_HUMAN	CM3-FT0181-140700-281407 FT0181 Homo sapiens cDNA
6967	21963	35388	1.97	3.0E-38	H85484.1	EST_HUMAN	Y68004.1 Soares melanocyte ZNF-HM Homo sapiens cDNA clone IMAGE:249775 5'
6997	21963	35389	1.97	3.0E-38	H85484.1	EST_HUMAN	Y68004.1 Soares melanocyte ZNF-HM Homo sapiens cDNA clone IMAGE:249775 5'
10331	23295		2.06	3.0E-38	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
12509	18333	31171	1.46	3.0E-38	11438947	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
52	13172	25081	2.54	2.0E-38	AL163248.2	NT	Homo sapiens SMT3 (suppressor of mit tw 3, yeast) homolog 2 (SMT3H2), mRNA
1380	14414	27384	2.28	2.0E-38	5902097	NT	Homo sapiens SMT3 (suppressor of mit tw 3, yeast) homolog 2 (SMT3H2), mRNA
1653	14685	27659	2.07	2.0E-38	AA437383.1	EST_HUMAN	ZW30401.1 Soares ovary tumor N8H07 MANNOsyl-OLIGOSACCHARIDE ALPHA-1,2-MANNOSIDASE ;
1653	14685	27660	2.07	2.0E-38	AA437383.1	EST_HUMAN	ZW30401.1 Soares ovary tumor N8H07 MANNOsyl-OLIGOSACCHARIDE ALPHA-1,2-MANNOSIDASE ;
2418	15425	28448	1.11	2.0E-38	W76571.1	EST_HUMAN	SW/MA12, P45701 MANNOsyl-OLIGOSACCHARIDE ALPHA-1,2-MANNOSIDASE ;
							ZW66009.1 Soares, testis, N8H119W Homo sapiens cDNA clone IMAGE:345664 5'
5271	18160	31040	0.79	2.0E-38	AA437181.1	EST_HUMAN	ZW61009.1 Soares, testis, N8H119W Homo sapiens cDNA clone IMAGE:345664 5'
							GB1997 GLYCINE RECEPTOR SUBUNIT ALPHA 4 ;

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5807	18897	32078	0.61	2.0E-38	Z26834.2	NT	Homo sapiens mRNA for ankyrin B (440 kDa)
5807	18897	32080	0.61	2.0E-38	Z26834.2	NT	Homo sapiens mRNA for ankyrin B (440 kDa)
7989	20927	34322	1.27	2.0E-38	AV721103.1	EST_HUMAN	AV721103 HTB Homo sapiens cDNA clone HTBARH11.5
8828	21793		5.59	2.0E-38	BE166380.1	EST_HUMAN	MR3-H10497-150200-113-901 H10497 Homo sapiens cDNA
9246	22212	35642	0.95	2.0E-38	FO6450.1	EST_HUMAN	HSC1818-031 normalized infant brain cDNA Homo sapiens cDNA clone c-1803
9316	22281	35711	1.21	2.0E-38	AF069755.1	NT	Homo sapiens orphan G protein-coupled receptor HG20 (HG20) mRNA, complete cds
9576	22538		1.04	2.0E-38	BE22256.1	EST_HUMAN	hUG902.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3188130 3' similar to TR:002710 002710
10815	23738	37239	1.74	2.0E-38	D63479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
11819	24702	38284	4.82	2.0E-38	BE712790.1	EST_HUMAN	QV22-HT0688-060800-293-403 HT0688 Homo sapiens cDNA
11955	24834	38429	3.66	2.0E-38	AF190501.1	NT	Homo sapiens leucine-rich repeat-containing G protein-coupled receptor 8 (LGR8) mRNA, partial cds
11955	24834	38430	3.66	2.0E-38	AF190501.1	NT	Homo sapiens leucine-rich repeat-containing G protein-coupled receptor 8 (LGR8) mRNA, partial cds
12240	25071		3.39	2.0E-38	AV726898.1	EST_HUMAN	AV726898 HTC Homo sapiens cDNA clone HTCAHX07.5
12242	25072		2.13	2.0E-38	AB012723.1	NT	Homo sapiens gene for kinesin-like protein, complete cds
12538	25262		2.51	2.0E-38	M56530.1	NT	Human topoisomerase I pseudogene 2
12549	26271	31810	6.8	2.0E-38	H55641.1	EST_HUMAN	GHR220580 Chromosome 22 exon Homo sapiens cDNA clone C22_785.5
13065	25598		3	2.0E-38	11418248	NT	Homo sapiens autotransferase-related protein (SUL-TX3) mRNA
1095	14139		2.38	1.0E-38	AA401570.1	EST_HUMAN	zu62b02.11 Soares testis_NHT Homo sapiens cDNA clone IMAGE:742639 5' similar to contains element
2015	15036	28047	1.92	1.0E-38	4985288	NT	MER19 repetitive element;
2035	15054	28071	1.17	1.0E-38	7691069	NT	Homo sapiens guanine nucleotide binding protein-like 1 (GNL1) mRNA
2502	15095	28532	2.01	1.0E-38	AF270311.1	NT	Homo sapiens cyclin K (CCNK) gene, exon 7
4182	17213	30101	0.99	1.0E-38	AB037853.1	NT	Homo sapiens mRNA for KIAA1442 protein, partial cds
4352	17379	30259	10.48	1.0E-38	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
4352	17379	30260	10.48	1.0E-38	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
4927	17648	30536	0.93	1.0E-38	8922543	NT	Homo sapiens hypothetical protein FLJ10900 (FLJ10900) mRNA
5143	18152	31032	0.77	1.0E-38	AA077526.1	EST_HUMAN	7844f06 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7844f06
6143	18218	32447	6.58	1.0E-38	7305360	NT	Mus musculus obelin (Obp) mRNA
6143	18218	32448	6.58	1.0E-38	7305360	NT	Mus musculus obelin (Obp) mRNA
7834	20594	33957	3.03	1.0E-38	AB014512.1	NT	Homo sapiens mRNA for KIAA0612 protein, partial cds
9508	22471	33915	0.55	1.0E-38	11422260	NT	Homo sapiens hypothetical protein FLJ10900 (FLJ10900) mRNA

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Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9785	22708	38162	6.34	1.0E-38	BE350127.1	EST_HUMAN	h09g01.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER28 b3 MER29 repetitive element;
12401	25712		2.08	1.0E-38	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
561	13176	26087	5.73	8.0E-39	4802312	NT	Homo sapiens ATPase, H ₂ O transporting, lysosomal (vacuolar proton pump) 18kD (ATP6C) mRNA
13395	14429	27398	0.94	8.0E-39	4758228	NT	Homo sapiens estrogen receptor-binding fragment-associated gene 9 (EBAG9) mRNA
1846	14872		1.54	8.0E-39	AB23404.1	EST_HUMAN	wh53710.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2384491 3' similar to TRP87890 P87890 POL. PROTEIN;
21065	15122	28142	5.19	7.0E-39	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
11180	24118	37645	1.8	6.0E-39	BF331828.1	EST_HUMAN	GV1-BT0631-040900-357202 BT0631 Homo sapiens cDNA
12881	28545		3.12	6.0E-39	BE870394.1	EST_HUMAN	7c34603.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284356 3' similar to WPR151.8 CE00028;
1009	14058	27010	1.43	5.0E-39	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
2988	10059	28978	8.13	5.0E-39	AI750154.1	EST_HUMAN	sl38504.x1 Bacterial clone HPI PB7 Homo sapiens cDNA clone IMAGE:2374063 3' similar to TR-Q15408 Q15408 NEUTRAL PROTEASE LARGE SUBUNIT contains LTR7.1 LTR7 repetitive element;
12699	25356		2.82	5.0E-39	11420288	NT	Homo sapiens hypothetical protein FLJ10803 (FLJ10803), mRNA
552	13622	26542	20.77	4.0E-39	AB019510.1	NT	Chlorococcus aerophilus mRNA for ribosomal protein S4X, complete cds.
3587	16832	29550	0.92	4.0E-39	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
5928	19014	32207	0.85	4.0E-39	11422113	NT	Homo sapiens EBNA-2 co-activator (100kD) (p100), mRNA
5928	19014	32208	0.85	4.0E-39	11422113	NT	Homo sapiens EBNA-2 co-activator (100kD) (p100), mRNA
8411	21380	34786	1.14	4.0E-39	AA682949.1	EST_HUMAN	o6r2g04.x1 Stragene schizo brain S11 Homo sapiens cDNA clone IMAGE:1020438 3' similar to contains OFR.b1 ORF repetitive element;
9684	22637	36092	0.61	4.0E-39	DB4116.1	NT	Homo sapiens DNA for prostacyclin synthase, exon 2
9684	22637	36093	0.61	4.0E-39	DB4116.1	NT	Homo sapiens DNA for prostacyclin synthase, exon 2
9684	22637	36093	0.61	4.0E-39	DB4116.1	NT	Homo sapiens DNA for prostacyclin synthase, exon 2
12704	25363		3.29	4.0E-39	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
12819	25441		3.15	4.0E-39	BE836452.1	EST_HUMAN	QVQ-FN0003-260800-278-c08 FN0003 Homo sapiens cDNA
49	13188	26075	14.8	3.0E-39	AA631949.1	EST_HUMAN	fmi1c16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12-1
49	13189	26076	14.8	3.0E-39	AA631949.1	EST_HUMAN	fmi1c16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12-1
49	13189	26077	14.8	3.0E-39	AA631949.1	EST_HUMAN	fmi1c16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12-1
12233	25065	38183	6.14	3.0E-39	AI084557.1	EST_HUMAN	o6r3a10.x1 Soares NIHMPU_S1 Homo sapiens cDNA clone IMAGE:1860986 3' similar to SW:GTR5_RAT
12233	25065	38164	6.14	3.0E-39	AI084557.1	EST_HUMAN	o6r3a10.x1 Soares NIHMPU_S1 Homo sapiens cDNA clone IMAGE:1860986 3' similar to SW:GTR5_RAT
12233	25065	38164	6.14	3.0E-39	AI084557.1	EST_HUMAN	P43427 GLUCOSE TRANSPORTER TYPE 5, SMALL INTESTINE;

Table 4

Single Exon Probes Expressed In Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor	
12822	25100		11.16	3.0E-39	H37903.1	EST_HUMAN	yp51c08.s1 Scores retina N2b4HR Homo sapiens cDNA clone IMAGE:180954 3'	
888	13953		9.79	2.0E-39	BE409203.1	EST_HUMAN	601301607F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636289 5'	
813	13069		13.84	2.0E-39	AI525119.1	EST_HUMAN	pmrma-7.D01.1 bvmur Homo sapiens cDNA 5'	
1033	14079		4.67	2.0E-39	AF000573.1	NT	Homo sapiens homonitrate 1,2-dioxygenase gene, complete cds	
1532	14655		24.51	2.0E-39	AW372318.1	EST_HUMAN	PMO-BT0340-211/289-003-002 BT0340 Homo sapiens cDNA	
1990	15011		3.62	2.0E-39	AA720574.1	EST_HUMAN	nm21g02.s1 NCL_CGAP_GCB08 Homo sapiens cDNA clone IMAGE:1241138 3' similar to contains THR18 THR repetitive element;	
2838	15635		2.3	2.0E-39	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048	
4431	17458		30349	1.58	2.0E-39	BF370207.1	EST_HUMAN	RC4-FN0037-280700-011-e10 FN0037 Homo sapiens cDNA
5968	18695		31824	4.2	2.0E-39	AA508880.1	EST_HUMAN	ng8903.s1 NCL_CGAP_P16 Homo sapiens cDNA clone IMAGE:941693
7594	20555		33915	2.34	2.0E-39	AA080967.1	EST_HUMAN	zn0602.1 Striatum hNT neuron (#637233) Homo sapiens cDNA clone IMAGE:546851 5'
7778	20729		34101	0.61	2.0E-39	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
7778	20729		34102	0.61	2.0E-39	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
8553	21621		35041	0.56	2.0E-39	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
9851	22787		1.32	2.0E-39	AA984531.1	EST_HUMAN	am88c11.s1 Striatum schiz brain S11 Homo sapiens cDNA clone IMAGE:1630186 3'	
5984	22811		0.53	2.0E-39	AI696890.1	EST_HUMAN	lx35e03.x1 NCL_CGAP_P28 Homo sapiens cDNA clone IMAGE:2253052 3'	
11761	24689		36271	2.56	2.0E-39	D88964.1	NT	Human mRNA for KIAA0209 gene, partial cds
1516	14548		27520	3.52	1.0E-39	AJ006345.1	NT	Homo sapiens KVLQ11 gene
1518	14548		27521	3.52	1.0E-39	AJ006345.1	NT	Homo sapiens KVLQ11 gene
1533	14566		27535	6.96	1.0E-39	7657020	NT	Homo sapiens DKFZP434P211 protein (DKFZP434P211), mRNA
4683	17710		30603	6.87	1.0E-39	AW951995.1	EST_HUMAN	EST364065 IMAGE sequences, MAGB Homo sapiens cDNA
4683	17710		30604	6.87	1.0E-39	AW951995.1	EST_HUMAN	EST364065 IMAGE sequences, MAGB Homo sapiens cDNA
4731	17751		30643	8.48	1.0E-39	7657020	NT	Homo sapiens DKFZP434P211 protein (DKFZP434P211), mRNA
5432	18534		31442	0.87	1.0E-39	11417342	NT	Homo sapiens serpin domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (serpin) 5A (SEMA5A), mRNA
5432	18534		31443	0.87	1.0E-39	11417342	NT	Homo sapiens serpin domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (serpin) 5A (SEMA5A), mRNA
5711	18805		31982	1.2	1.0E-39	T80876.1	EST_HUMAN	Y22906.1 Scores fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:109402 5' similar to contains Alu repetitive element; contains LTR1 repetitive element;
5747	18841		32023	4.7	1.0E-39	AJ278170.1	NT	Mus musculus mRNA for neuronal interacting factor X1 (NIX1) (Nix1 gene)
5747	18841		32024	4.7	1.0E-39	AJ278170.1	NT	Mus musculus mRNA for neuronal interacting factor X1 (NIX1) (Nix1 gene)
7000	20126		1.68	1.0E-39	11456736	NT	Homo sapiens tubby like protein 3 (TULP3), mRNA	
7589	20560		39911	2.1	1.0E-39	D78192.1	NT	Homo sapiens mRNA for ras-related GTP-binding protein, complete cds
8910	21876		35302	0.96	1.0E-39	O46530	SWISSPROT	RIBONUCLEASE K6 PRECURSOR (RNASE K6)

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
557	13627	26646	1.8	9.0E-40	5603210	NT	Homo sapiens UDP-glucose pyrophosphorylase 2 (UGP2), mRNA
1239	14275	27234	14.84	9.0E-40	4755145	NT	Homo sapiens AE-binding protein 1 (AEBP1), mRNA
1239	14275	27235	14.84	9.0E-40	4755145	NT	Homo sapiens AE-binding protein 1 (AEBP1), mRNA
1443	14476	27453	0.99	9.0E-40	4507512	NT	Homo sapiens tissue inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy, pseudoinflammatory) (TIMP3), mRNA
3799	16839	28746	0.88	9.0E-40	4503784	NT	Homo sapiens fragile X mental retardation 1 (FMR1), mRNA
3937	18315	29843	4.05	9.0E-40	AB033070.1	NT	Homo sapiens RNA for KIAA1244 protein, partial cds
4527	17401	30281	0.78	9.0E-40	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13), mRNA
3054	16111	29026	0.91	9.0E-40	AA078165.1	EST_HUMAN	7H15A04 Chromosome 7 Hela cDNA Library Homo sapiens cDNA clone 7H15A04
3945	16985		2.39	9.0E-40	BE308541.1	EST_HUMAN	601268958F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE3619166 5'
7985	20924	34317	2.22	7.0E-40	U60325.1	NT	Human DNA polymerase gamma mRNA, nuclear gene encoding mitochondrial protein, complete cds
7985	20924	34318	2.22	7.0E-40	U60325.1	NT	Human DNA polymerase gamma mRNA, nuclear gene encoding mitochondrial protein, complete cds
11243	24196	37715	1.76	7.0E-40	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C048
2737	16731	28746	7.5	8.0E-40	AA361273.1	EST_HUMAN	EST70527 T-cell lymphoma Homo sapiens cDNA 5' end similar to zinc finger protein family
2737	15731	28747	7.5	6.0E-40	AA361273.1	EST_HUMAN	EST70527 T-cell lymphoma Homo sapiens cDNA 5' end similar to zinc finger protein family
6049	19130		2.05	6.0E-40	BE504766.1	EST_HUMAN	h24001.1x1 NCI CGAP_G08 Homo sapiens cDNA clone IMAGE3210480 3'
6270	19343		1.32	8.0E-40	7661939	NT	Homo sapiens KIAA0211 gene product (KIAA0211), mRNA
7121	20055	33359	3.38	8.0E-40	11439783	NT	Homo sapiens fatty acid desaturase 1 (FADS1), mRNA
7121	20055	33360	3.38	8.0E-40	11439783	NT	Homo sapiens fatty acid desaturase 1 (FADS1), mRNA
10336	23260	36738	9.47	6.0E-40	AV653028	EST_HUMAN	AV653028 GLC Homo sapiens cDNA clone GLOCDF04 3'
10336	23260	36739	9.47	6.0E-40	AV653028.1	EST_HUMAN	AV653028 GLC Homo sapiens cDNA clone GLOCDF04 3'
2612	15611	28635	1.12	5.0E-40	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
1694	14919	27815	3.21	4.0E-40	AF680005.1	EST_HUMAN	381031.1x1 NCI CGAP_P128 Homo sapiens cDNA clone IMAGE:2248873 3' similar to TR-O73505 O73505 POL PROTEIN ;
2117	15134		2.22	4.0E-40	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
4415	17442	30333	8.57	4.0E-40	7662117	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
8218	21187	34597	0.44	4.0E-40	AU127831.1	EST_HUMAN	AU127831 NT26P2 Homo sapiens cDNA clone NT26P2002172 5'
8324	21293	34701	4.81	4.0E-40	AA742809.1	EST_HUMAN	AA742809.1 NCI CGAP_B44 Homo sapiens cDNA clone IMAGE:122122
9410	22375	35912	5.53	4.0E-40	BE009416.1	EST_HUMAN	PM0-SN0197-070500-002-h12 BN0167 Homo sapiens cDNA

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Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9410	22376	35813	5.93	4.0E-40	BE009410.1	EST_HUMAN	PMA-BN0167-070500-002-n12 BN0167 Homo sapiens cDNA
11071	24033	37557	1.86	4.0E-40	AW841585.1	EST_HUMAN	RC1-CN0017-120200-012-g04 CN0017 Homo sapiens cDNA
4158	17189	30077	1.02	3.0E-40	AI826498.1	EST_HUMAN	WH1207.x1 NCL CGAP_K611 Homo sapiens cDNA clone IMAGE:2380549.3
6607	19666	32940	0.86	3.0E-40	4506736	NT	Homo sapiens ribosomal protein S6 kinase, 70kD, polypeptide 1 (RPS8K81) mRNA
6796	18850	33135	7.89	3.0E-40	11417342	NT	Homo sapiens semis domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SCM5A), mRNA
8724	21962	35118	3.94	3.0E-40	5454167	NT	Homo sapiens HBV associated factor (XAP4) mRNA
9320	22285	35716	1.23	3.0E-40	AF078779.1	NT	Homo sapiens HBV associated factor (XAP4) mRNA, complete cds
9566	22528	35977	1.34	3.0E-40	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
11597	24535	38922	9.3	3.0E-40	6006813	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
325	13416		4.59	2.0E-40	AI223036.1	EST_HUMAN	Homo sapiens serine threonine protein kinase (NDR), mRNA
795	13854		29.26	2.0E-40	AW303698.1	EST_HUMAN	qx24e10.x1 NCL CGAP_U14 Homo sapiens cDNA clone IMAGE:1838847.3
1842	14969		1.77	2.0E-40	AV731601.1	EST_HUMAN	P97461.40S RIBOSOMAL PROTEIN S5
1951	14874	27973	1.94	2.0E-40	4506188	NT	AV731601 HTF Homo sapiens cDNA clone HTFAZE05.5
1951	14874	27974	1.84	2.0E-40	4506188	NT	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 7 (PSMA7) mRNA, and translated products
2085	15102	28119	1.01	2.0E-40	AI685562.1	EST_HUMAN	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 7 (PSMA7) mRNA, and translated products
2179	15104	28215	1.84	2.0E-40	5453592	NT	W80at11.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2514716.3 similar to TR-Q91029 Q91029 ZINC FINGER PROTEIN
2700	15698		1.79	2.0E-40	BE275932.1	EST_HUMAN	Homo sapiens adenyl cyclase associated protein 2 (CAP2) mRNA
3143	16200	29111	4.44	2.0E-40	5453592	NT	601121587F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3345784.5
4837	17953	30845	1.7	2.0E-40	AL163280.2	NT	Homo sapiens adenyl cyclase-associated protein 2 (CAP2) mRNA
4837	17953	30846	1.7	2.0E-40	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
5227	18245	31117	1.12	2.0E-40	4505880	NT	Homo sapiens chromosome 21 segment HS21C080
884	13939		1.93	1.0E-40	AA226989.1	EST_HUMAN	Homo sapiens plasminogen (PLG) mRNA
2629	16828	28663	1.47	1.0E-40	BF036861.1	EST_HUMAN	nc0809.s1 NCL CGAP_Prl1 Homo sapiens cDNA clone IMAGE:1007608
2696	15692		1.54	1.0E-40	BE018348.1	EST_HUMAN	6011400375F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3689803.5
2747	15740	28756	1.38	1.0E-40	BF541030.1	EST_HUMAN	b678a10.x1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048570.5 similar to TR-Q82168 Q92168 SYNTAXIN 17
2747	15740	28757	1.38	1.0E-40	BF541030.1	EST_HUMAN	602068604F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4067736.5
3309	16932		1.58	1.0E-40	4507142	NT	602068604F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4067736.5
4640	17661	30549	4.18	1.0E-40	4508012	NT	Homo sapiens sorting nexin 3 (SNX3) mRNA
							Homo sapiens zinc finger protein 200 (ZNF200) mRNA, and translated products

Table 4

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6384	19452	32895	0.73	1.0E-40	W92708.1	EST_HUMAN	z179f11.s1 Soares fetal liver, spleen, 1NF.LS, S1 Homo sapiens cDNA clone IMAGE:418317.3'
6384	19452	32896	0.73	1.0E-40	W92708.1	EST_HUMAN	z179f11.s1 Soares fetal liver, spleen, 1NF.LS, S1 Homo sapiens cDNA clone IMAGE:418317.3'
7293	20265	33599	1.92	1.0E-40	AA573201.1	EST_HUMAN	h4204.s1 NCL CGAP AA1 Homo sapiens cDNA clone IMAGE:865167.3'
7293	20265	33600	1.92	1.0E-40	AA573201.1	EST_HUMAN	h4204.s1 NCL CGAP AA1 Homo sapiens cDNA clone IMAGE:865167.3'
7443	20409	33761	0.84	1.0E-40	P28608	SWISSPROT	POL POLYPROTEIN [CONTAINS: PROTEASE, REVERSE TRANSCRIPTASE, RIBONUCLEASE H]
11282	24214	37738	2.42	1.0E-40	AU148345.1	EST_HUMAN	AU148345 NT2RM4 Homo sapiens cDNA clone NT2RM4002122.3'
12659	25847		14.2	1.0E-40	BF334112.1	EST_HUMAN	MR2-CT0222-211096-002-s10 CT0222 Homo sapiens cDNA
12813	25822		1.64	1.0E-40	Z00015.1	NT	H.sapiens V16 gene low repetitive L-family member, (cos 20)
8254	17223	34633	1.59	8.0E-41	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21G203
829	19552	26840	1.81	7.0E-41	AB34364.1	EST_HUMAN	wpd404.s1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2463895.3'
829	19552	26841	1.81	7.0E-41	AB34364.1	EST_HUMAN	wpd404.s1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2463895.3'
5337	18442	31159	0.95	7.0E-41	11545770	NT	Homo sapiens hypothetical protein FLJ13188 (FLJ13188), mRNA
6124	18202	32426	2.97	7.0E-41	11419208	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
6486	19553	32803	1.08	7.0E-41	11433010	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1), mRNA
7186	18417	31218	0.86	7.0E-41	U7235.1	NT	Human platelet activating factor acetylhydrolase, brain isoform, 45 kDa subunit (LIS1) gene, exons 3 and 4
11763	24601	39272	2.6	7.0E-41	4758445	NT	Homo sapiens guanine nucleotide binding protein 10 (GNG10) mRNA
13072	25844		10.83	7.0E-41	11417672	NT	Homo sapiens p53-related (zsfraflin) homolog 1, containing BRCT domain (PES1), mRNA
280	13375	26304	0.65	6.0E-41	AB037163.1	NT	Homo sapiens DSCR5b mRNA, complete cds
2120	15137	28157	1.67	6.0E-41	7657042	NT	Homo sapiens Down syndrome candidate region 1 (DSCR1), mRNA
8304	21273	34684	1.59	6.0E-41	BF513783.1	EST_HUMAN	JRH-BW1-amp-B-03-Q-U1 NCL CGAP_S4b7 Homo sapiens cDNA clone IMAGE:3070421.3'
1619	14846	27838	1.75	5.0E-41	1762626	EST_HUMAN	yc0340.s1 Strabagene lung (H937210) Homo sapiens cDNA clone IMAGE:79626.3'
4134	17166		1.03	5.0E-41	4885636	NT	Homo sapiens target of myb1 (chicken) homolog (TOM1), mRNA
6898	19755		2.06	5.0E-41	BE067042.1	EST_HUMAN	PMA-B10341-251198-002-F11 B10341 Homo sapiens cDNA
381	13466		1.73	4.0E-41	BE156318.1	EST_HUMAN	QV0-HT0367-150200-114-g09 HT0367 Homo sapiens cDNA
1100	14144	27084	1.16	4.0E-41	AU118344.1	EST_HUMAN	AU118344 HEMOBA1 Homo sapiens cDNA clone HEMBA1005583.5'
1408	14441	27411	9.16	4.0E-41	A1027117.1	EST_HUMAN	aw45406.s1 Soares parathyroid, tumor, NHPHA Homo sapiens cDNA clone IMAGE:1649784.3' similar to TR:000597 000597 CYTOCHROME C-LIKE POLYPEPTIDE, contains LTR5.b1 LTR5 repetitive element.
1408	14441	27412	9.16	4.0E-41	A1027117.1	EST_HUMAN	aw45406.s1 Soares parathyroid, tumor, NHPHA Homo sapiens cDNA clone IMAGE:1649784.3' similar to TR:000597 000597 CYTOCHROME C-LIKE POLYPEPTIDE, contains LTR5.b1 LTR5 repetitive element.
1420	14453	27427	2.75	4.0E-41	AB009681.1	NT	Homo sapiens gene for activin receptor type IIB, complete cds

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1641	14873	27046	6.9	4.0E-41	AI500406.1	EST_HUMAN	hm9604.x1 NC1 CGAP_Brn25 Homo sapiens cDNA clone IMAGE:216958 3' similar to contains ORF.b1
2859	16958	28876	3.96	4.0E-41	AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
2859	16958	28877	3.95	4.0E-41	AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
4168	17169	30085	2.28	4.0E-41	X92885.1	NT	H.sapiens DNase I hypersensitive site (HSS-3) enhancer element
6858	19715		1.31	4.0E-41	AV758295.1	EST_HUMAN	AV758295 BM Homo sapiens cDNA clone BMFH08 5'
10052	22878	38448	8.41	4.0E-41	BF304683.1	EST_HUMAN	80188096F NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122119 5'
11981	24858		11.56	4.0E-41	AV710480.1	EST_HUMAN	AV710480 Cn Homo sapiens cDNA clone QAAAC007 5'
947	1400C	26952	2.51	3.0E-41	AB030176.1	NT	Homo sapiens PAD-H19 mRNA for peptidylarginine deiminase type II, complete cds
4362	17389	30271	2.6	3.0E-41	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
5148	18157		1.15	3.0E-41	AB037748.1	NT	Homo sapiens mRNA for KIAA1337 protein, partial cds
5560	18696	31625	9.48	3.0E-41	X87689.1	NT	H.sapiens mRNA for putative p84 CLP protein
6518	19551	32839	1.61	3.0E-41	AB037628.1	NT	Homo sapiens mRNA for KIAA1387 protein, partial cds
7473	20439	33797	0.92	3.0E-41	AA356168.1	EST_HUMAN	EST64683 Jurkat T-cells V1 Homo sapiens cDNA 5' end
8072	21009	34407	0.52	3.0E-41	RS4795.1	EST_HUMAN	Y75408.r1 Soares breast 2NB-H8at Homo sapiens cDNA clone IMAGE:154575 5'
12116	20988	38587	3.46	3.0E-41	AV094941.1	EST_HUMAN	QV0-BN0040-170300-160-H08 BN0040 Homo sapiens cDNA
12116	20988	38588	3.46	3.0E-41	AA609768.1	EST_HUMAN	QV0-BN0040-170300-160-H08 BN0040 Homo sapiens cDNA
12195	25040		1.49	3.0E-41	AA609768.1	EST_HUMAN	ad71710.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1031947 3'
1841	14595	27570	15.21	2.0E-41	U43701.1	NT	Human ribosomal protein L23a mRNA, complete cds
1975	14956	27098	2.16	2.0E-41	AA331940.1	EST_HUMAN	EST35818 Embryos, 8 week 1 Homo sapiens cDNA 5' end
2228	15242	28267	1.37	2.0E-41	D65932.1	NT	Human mRNA for KIAA0207 gene, complete cds
2276	15289	28314	4.43	2.0E-41	X89531.1	NT	G.gorilla DNA for ZNF80 gene homolog
2839	14595	27570	7.99	2.0E-41	U43701.1	NT	Human ribosomal protein L23a mRNA, complete cds
3851	16881	29795	0.9	2.0E-41	5032106.1	NT	Homo sapiens son of sevenless (Drosophila) homolog 1 (SOS1) mRNA
4652	17673	30560	1.13	2.0E-41	AL163287.2	NT	Homo sapiens chromosome 21 segment HS21C067
4652	17673	30561	1.13	2.0E-41	AL163287.2	NT	Homo sapiens chromosome 21 segment HS21C067
5617	18713	31871	0.61	2.0E-41	AA384575.1	EST_HUMAN	bc1207.s1 NC1 CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100460 3' similar to gb:X52851_mel
6782	19857	332121	0.85	2.0E-41	4504778	NT	PEPTIDYL-PROLYL CIS-TRANS ISOMERASE A (HUMAN);
7935	20877	34267	6.38	2.0E-41	AF038404.1	NT	Homo sapiens integrin, beta 5 (ITGB5) mRNA
8148	21085	34484	0.6	2.0E-41	11422047	NT	Homo sapiens homolog of Nedd5 (hNedd5) mRNA, complete cds
8403	21372	34780	1.63	2.0E-41	M68044.1	NT	Homo sapiens origin recognition complex, subunit 5 (yeast homolog) like (ORC5L) mRNA
8403	21372	34781	1.63	2.0E-41	M68044.1	NT	Human B-cell specific transcription factor (BSAP) mRNA, complete cds
8403	21372	34781	1.63	2.0E-41	M68044.1	NT	Human B-cell specific transcription factor (BSAP) mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8493	21402	34815	1.47	2.0E-41	AA328265.1	EST_HUMAN	EST31723 Embryo, 12 week 1 Homo sapiens cDNA 5' end
9326	22261	35721	1.61	2.0E-41	P52742	SWISSPROT	ZINC FINGER PROTEIN 135
9772	22713	36168	0.72	2.0E-41	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
9772	22713	36168	0.72	2.0E-41	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
11815	24700	38281	2.21	2.0E-41	AA372637.1	EST_HUMAN	EST84555 Colon adenocarcinoma IV Homo sapiens cDNA 5' end
3219	16274	29197	1.33	1.0E-41	BE689735.1	EST_HUMAN	607445647F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3849803 5'
3219	16274	29198	1.33	1.0E-41	BE689735.1	EST_HUMAN	607445647F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3849803 5'
4598	17619	30512	7.8	1.0E-41	H69079.1	EST_HUMAN	Mus musculus tubulin alpha 6 (Tuba6), mRNA
7026	18358	31278	0.49	1.0E-41	A1217863.1	EST_HUMAN	YK18503 s1 Soares melanocyte 2NBHM Homo sapiens cDNA clone IMAGE:262061 3'
9773	22714	36169	1.73	1.0E-41	A1217863.1	EST_HUMAN	YK18503 s1 Soares melanocyte 2NBHM Homo sapiens cDNA clone IMAGE:1756858 3'
11494	24437	37896	1.56	1.0E-41	AW847812.1	EST_HUMAN	Homo sapiens hypodermal protein FLJ20454 (FLJ20454), mRNA
12352	25132		2.72	1.0E-41	11526291	NT	RCO-HT0613-210300-082 g01 HT0613 Homo sapiens cDNA
8855	21832		1.06	9.0E-42	BE179191.1	EST_HUMAN	Homo sapiens hypodermal protein FLJ22504 (FLJ22504), mRNA
9529	22492	35939	3.08	9.0E-42	11560151	NT	Homo sapiens hypodermal C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
9529	22492	35940	3.08	9.0E-42	11560151	NT	Homo sapiens hypodermal C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
463	13536	28462	6.85	8.0E-42	AF003530.1	NT	Homo sapiens homeobox protein CDX4 (CDX4) gene, complete cds and flanking repeat regions
2118	15135	28155	1.18	8.0E-42	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
5197	18206	31080	1.06	8.0E-42	6679031	NT	Mus musculus neural precursor cell expressed, developmentally down-regulated gene 1 (Nedd1), mRNA
12376	25850		28	8.0E-42	AA403896.1	EST_HUMAN	m0702.s1 NCI CGAP_T1M1 Homo sapiens cDNA clone IMAGE:943585 similar to TR.G:345904 G434304
12394	28726		1.55	8.0E-42	AW080862.1	EST_HUMAN	367BP EXPRESSED SEQUENCE TAG MRNA
932	13955		1.46	7.0E-42	AL163285.2	NT	kb07804.x1 NCI CGAP_Bm35 Homo sapiens cDNA clone IMAGE:2592174 3' similar to contains OFR.12
8814	21781		0.6	7.0E-42	R10963.1	EST_HUMAN	OFR repetitive element 1
9599	22603	36052	1.67	7.0E-42	A1204359.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21O085
11508	24450	38000	3.47	7.0E-42	AA569592.1	EST_HUMAN	Y38G04.1 Soares fetal liver protein TNFSF13 Homo sapiens cDNA clone IMAGE:128174 5'
11508	24450	38001	3.47	7.0E-42	AA569592.1	EST_HUMAN	Y38G04.1 Soares testis, NHT Homo sapiens cDNA clone IMAGE:1754278 3'
1873	14858	27896	3.35	6.0E-42	AF012872.1	NT	m23g07.s1 NCI CGAP_P11 Homo sapiens cDNA clone IMAGE:914652
1873	14858	27896	3.35	6.0E-42	AF012872.1	NT	m23g07.s1 NCI CGAP_P11 Homo sapiens cDNA clone IMAGE:914652
2287	15309		5.49	6.0E-42	AW238556.1	EST_HUMAN	Homo sapiens phosphotyrosinase 4 kinase 250 (p44K250) mRNA, complete cds
						NT	Homo sapiens phosphotyrosinase 4 kinase 250 (p44K250) mRNA, complete cds
						NT	x029103.x1 NCI CGAP_HN10 Homo sapiens cDNA clone IMAGE:2741789 3' similar to contains L1.11 L1
						EST_HUMAN	repetitive element 1

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5039	18052		1.48	6.0E-42	A1284770.1	EST_HUMAN	qlz24h09.x1 NCI_CGAP_B12 Homo sapiens cDNA clone IMAGE:1965761 similar to contains Alu repetitive element;
5543	18940	31580	1.6	6.0E-42	AB028590.1	NT	Homo sapiens mRNA for KIAA1087 protein, partial cds
5805	18940	31580	1.37	6.0E-42	AB028590.1	NT	Homo sapiens mRNA for KIAA1087 protein, partial cds
1336	13241		5.99	5.0E-42	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
438	13512	28443	1.7	5.0E-42	BE217913.1	EST_HUMAN	h31a11.x1 NCI_CGAP_L24 Homo sapiens cDNA clone IMAGE:3176052.3
487	13560		4.65	5.0E-42	5730038	NT	Homo sapiens SET domain and nuclear transposase fusion gene (SETMAR) mRNA
488	13561		1.37	5.0E-42	5730038	NT	Homo sapiens SET domain and nuclear transposase fusion gene (SETMAR) mRNA
6844	16907	33191	1.07	5.0E-42	11433063	NT	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus EB-associated protein, Angelman syndrome) (UBE3A), mRNA
6844	16907	33192	1.07	5.0E-42	11433063	NT	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus EB-associated protein, Angelman syndrome) (UBE3A), mRNA
6971	20184	33522	2.61	5.0E-42	11417857	NT	Homo sapiens myofibrillar related protein 3 (MTMR3), mRNA
7409	20378	33727	1.6	5.0E-42	AF071569.1	NT	Homo sapiens multifunctional calcium/calmodulin-dependent protein kinase II delta isoform mRNA, complete cds
8110	21047	34447	0.51	5.0E-42	4826977	NT	Homo sapiens reelin (RELN) mRNA
9131	22097	35524	2.86	5.0E-42	AB037715.1	NT	Homo sapiens mRNA for KIAA1284 protein, partial cds
10970	23890	37403	0.48	5.0E-42	11431168	NT	Homo sapiens 3-hydroxyanthranilate 3,4-dioxygenase (HAO), mRNA
10970	23890	37404	0.48	5.0E-42	11431168	NT	Homo sapiens 3-hydroxyanthranilate 3,4-dioxygenase (HAO), mRNA
12087	24959	38555	3.28	5.0E-42	X98411.1	NT	H. sapiens mRNA for myosin-E
12087	24959	38556	3.28	5.0E-42	X98411.1	NT	H. sapiens mRNA for myosin-E
764	13816	26758	23.04	4.0E-42	AF055068.1	NT	Homo sapiens MHC class I region
764	13816	26758	23.04	4.0E-42	AF055068.1	NT	Homo sapiens MHC class I region
1087	14112	27062	2.03	4.0E-42	AF188011.1	NT	Homo sapiens ribonuclease II (RN3) mRNA, complete cds
4223	17282	30139	1.24	4.0E-42	X59417.1	NT	H. sapiens PROS-27 mRNA
4255	17284	30166	1.12	4.0E-42	AF248219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
4277	17308	30185	4.28	4.0E-42	4506498	NT	Homo sapiens regulatory factor X, 4 (influence HLA class II expression) (RFX4) mRNA
4613	17834	30225	10.96	4.0E-42	4508008	NT	Homo sapiens zinc finger protein 177 (ZNF177) mRNA
5290	18295	31155	1	4.0E-42	AL169203.2	NT	Homo sapiens chromosome 21 segment HS21G003
5290	18295	31156	1	4.0E-42	AL169203.2	NT	Homo sapiens chromosome 21 segment HS21G003
10850	23770	37209	0.54	4.0E-42	AW371201.1	EST_HUMAN	CNO-BT0282-171289-127-503 BT0282 Homo sapiens cDNA
11010	23975	37490	1.88	4.0E-42	AW818630.1	EST_HUMAN	RC1-ST0278-04040-018-111 ST0278 Homo sapiens cDNA
11010	23975	37500	1.88	4.0E-42	AW818630.1	EST_HUMAN	RC1-ST0278-04040-018-111 ST0278 Homo sapiens cDNA
11741	24958	38205	2.69	4.0E-42	B1035327.1	EST_HUMAN	60145853.F1 NH_MGC_56 Homo sapiens cDNA clone IMAGE:3962086.5

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1478	14512	27488	4.08	2.0E-42	BF378834.1	EST_HUMAN	RC0-TN0079-110800-024-g07 TN0079 Homo sapiens cDNA
2402	15409	28433	0.93	2.0E-42	AV690218.1	EST_HUMAN	AV690218 GKGC Homo sapiens cDNA clone GKCCB08 5'
2422	15429		3.65	2.0E-42	AW688344.1	EST_HUMAN	RC3-NN0070-270400-011-h10 NN0070 Homo sapiens cDNA
2432	15439	28446	3.27	2.0E-42	AW250058.1	EST_HUMAN	2819283.3prime NH_MGC_7 Homo sapiens cDNA clone IMAGE:2819283 3'
5850	18840	32124	11.89	2.0E-42	AW955368.1	EST_HUMAN	EST1367438 MAGC residues, MAGC Homo sapiens cDNA
5850	18840	32125	11.89	2.0E-42	AW955368.1	EST_HUMAN	EST1367438 MAGC residues, MAGC Homo sapiens cDNA
6836	18684	32871	0.73	2.0E-42	M29145.1	NT	Human hepatocyte growth factor (HGF) mRNA, complete cds
6916	19988	33283	0.77	2.0E-42	A052586.1	EST_HUMAN	aw83485.x1 Sources: fetal liver, spleen, INFLS, S1 Homo sapiens cDNA clone IMAGE:1863417 3'
10201	23126	36612	1.17	2.0E-42	BE538519.1	EST_HUMAN	60181284F1 NH_MGC_10 Homo sapiens cDNA clone IMAGE:3447620 5'
10415	23337	36822	0.61	2.0E-42	P81649	SWISSPROT	RIBONUCLEASE K3 (RNASE K3) 1
10415	23337	36822	0.61	2.0E-42	P81649	SWISSPROT	RIBONUCLEASE K3 (RNASE K3) 1
10974	23894	37408	0.82	2.0E-42	AW834834.1	EST_HUMAN	RC0-L10001-150200-032-411 L10001 Homo sapiens cDNA
12043	24919	38515	1.48	2.0E-42	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
735	13795	28734	2.47	1.0E-42	X57147.1	NT	Human endogenous retrovirus PHE 11(ERV9)
1043	14088	27042	0.76	1.0E-42	AW295809.1	EST_HUMAN	UHH-B1-eth-6-04-UJ.s1 NCL CGAP_S063 Homo sapiens cDNA clone IMAGE:272187 3'
1103	14147	27097	1.27	1.0E-42	AJ251818.1	NT	Homo sapiens partial C9 gene for complement component C9, exon 1
1103	14147	27098	1.27	1.0E-42	AJ251818.1	NT	Homo sapiens partial C9 gene for complement component C9, exon 1
1247	15882	27248	12.68	1.0E-42	AF067166.1	NT	Homo sapiens NADH-ubiquinone oxidoreductase AGGG subunit precursor homolog mRNA, nuclear gene encoding mitochondrial protein, complete cds
1247	15882	27249	12.69	1.0E-42	AF067166.1	NT	Homo sapiens NADH-ubiquinone oxidoreductase AGGG subunit precursor homolog mRNA, nuclear gene encoding mitochondrial protein, complete cds
1711	14741	27725	2.09	1.0E-42	11423219.1	NT	Homo sapiens rec (LOC31201), mRNA
2046	15065	26085	1.05	1.0E-42	AF110266.1	NT	Homo sapiens PDNP1 gene, exon 17
2851	15553	28573	1.89	1.0E-42	5174468	NT	Homo sapiens major histocompatibility complex, class II, DM alpha (HLA-DMA) mRNA
2875	16033	28956	10.93	1.0E-42	4505524	NT	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORC5L) mRNA, and translated products
3721	18784	29675	2.43	1.0E-42	7662027	NT	Homo sapiens KIAA0285 gene product (KIAA0285), mRNA
3948	16888	29903	1.02	1.0E-42	AL163267.2	NT	Homo sapiens chromosome 21 segment HS21C087
4274	17393	30163	1.85	1.0E-42	AL163260.2	NT	Homo sapiens chromosome 21 segment HS21C080
4624	17645	30553	0.77	1.0E-42	AW813671.1	EST_HUMAN	RC3-ST0197-161099-012-a03 ST0197 Homo sapiens cDNA
4776	17796	30588	2.44	1.0E-42	5803122	NT	Homo sapiens proteasome inhibitor (Pis1), mRNA
4776	17796	30588	2.44	1.0E-42	5803122	NT	Homo sapiens proteasome inhibitor (Pis1), mRNA
4813	17530	30728	5.31	1.0E-42	4506758	NT	Homo sapiens tyrosine receptor 3 (RYR3) mRNA
4897	18012	30889	0.79	1.0E-42	Z46120.1	EST_HUMAN	HS00FF071 normalized infant brain cDNA Homo sapiens cDNA clone c-0f07

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10446	23368	36652	4.15	9.0E-43	4757969	NT	Homo sapiens chromodomain protein, Y chromosome-like (CDYL) mRNA
653	13719	26641	14	8.0E-43	AV736824.1	EST_HUMAN	AV736824 CB Homo sapiens cDNA clone CBLAX108 5'
653	13719	26642	14	8.0E-43	AV736824.1	EST_HUMAN	AV736824 CB Homo sapiens cDNA clone CBLAX108 5'
701	13763	26666	4.8	8.0E-43	8923278	NT	Homo sapiens hypothetical protein FLJ20297 (FLJ20297). mRNA
701	13763	26696	4.8	8.0E-43	8923278	NT	Homo sapiens hypothetical protein FLJ20297 (FLJ20297). mRNA
701	13763	26697	4.8	8.0E-43	8923278	NT	Homo sapiens hypothetical protein FLJ20297 (FLJ20297). mRNA
5783	18875	32057	0.78	8.0E-43	H13952.1	EST_HUMAN	y08r1.1 Sources placenta NB2-HP Homo sapiens cDNA clone IMAGE:148172 5'
3655	16998	29613	7.28	7.0E-43	AW246442.1	EST_HUMAN	2822251 Sp1rma NIH_MGC.7 Homo sapiens cDNA clone IMAGE:282251 5'
9121	22087		3.41	7.0E-43	AU98748.1	EST_HUMAN	w69b01.1 NCI CGAP Bn25 Homo sapiens cDNA clone IMAGE:246985 3' similar to TR:O15475
1347	14382		14.15	6.0E-43	AA491890.1	EST_HUMAN	O15475 UNNAMED HERV-H PROTEIN contains LTR.b1 LTR repetitive element;
2598	15599		2.91	6.0E-43	AV708201.1	EST_HUMAN	RIBOSOMAL PROTEIN L30 (HUMAN);
6444	19509	32759	2.16	6.0E-43	9858973	NT	Homo sapiens ATP-binding cassette, sub-family C (CFTR/MRP), member 3 (ABCC3), transcript variant
7093	20027	33331	1.91	6.0E-43	AW468897.1	EST_HUMAN	MRP3B, mRNA
10210	21335	36622	2.31	6.0E-43	AA195154.1	EST_HUMAN	h33004.x1 Sources_NFL_T_OBC.S1 Homo sapiens cDNA clone IMAGE:2910991 3' similar to contains
11437	24390		2.08	6.0E-43	AL119158.1	EST_HUMAN	z35606.r1 Sources_NH-MPU.S1 Homo sapiens cDNA clone IMAGE:665410 5' similar to TR:G528641
144	13247		1.8	5.0E-43	AL163213.2	NT	G528641 DB1, COMPLETE CDS, contains element P.T77 repetitive element;
503	13575	26496	3.96	5.0E-43	AA382780.1	EST_HUMAN	DKFZ7611.1712.J1 781 (synonym: ham2) Homo sapiens cDNA clone DKFZp7611.1712 5'
2859	15919	28840	1.83	5.0E-43	AV732578.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C013
8438	20021	33323	1.15	5.0E-43	AA1613509.1	EST_HUMAN	EST190033 Testis1 Homo sapiens cDNA 5' end
7097	20021	33323	0.65	5.0E-43	AA1613509.1	EST_HUMAN	AV732678 HTF Homo sapiens cDNA clone HTFANCO8 5'
8528	21468	34910	0.7	5.0E-43	AA442271.1	EST_HUMAN	w22e07.x1 NCI CGAP Bn52 Homo sapiens cDNA clone IMAGE:2260462 3'
8528	21468	34911	0.7	5.0E-43	AA442271.1	EST_HUMAN	w22e07.x1 NCI CGAP Bn52 Homo sapiens cDNA clone IMAGE:2260462 3'
9231	22197		0.89	5.0E-43	AT74277.1	EST_HUMAN	z564e03.r1 Sources Testis1 NHT Homo sapiens cDNA clone IMAGE:757420 5'
9719	22747	36198	4.22	5.0E-43	AA465288.1	EST_HUMAN	z564e03.r1 Sources Testis1 NHT Homo sapiens cDNA clone IMAGE:757420 5'
10783	23694	37180	2.36	5.0E-43	AT73244.1	EST_HUMAN	y449g12.r1 Sources fetal liver spleen NPLS Homo sapiens cDNA clone IMAGE:226510 5'
10802	23723	37225	1.45	5.0E-43	AL048110.1	EST_HUMAN	ae33d08.r1 NCI CGAP GCBI Homo sapiens cDNA clone IMAGE:815055 5'
11115	24075	37988	4.68	5.0E-43	AA7853007.1	EST_HUMAN	ae33d08.r1 NCI CGAP GCBI Homo sapiens cDNA clone IMAGE:815055 5'
11786	23941	37463	3.46	5.0E-43	X18904.1	NT	pv14 GENE;
							DKFZp434001.19 r1.434 (synonym: hsc3) Homo sapiens cDNA clone DKFZp434001.19
							MR2-SN0007-290403-004-c02 SN0007 Homo sapiens cDNA
							Human mRNA for alpha-actinin

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
974	15916	26979	3.95	4.0E-43	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
5331	18437	31189	1.18	4.0E-43	AI056338.1	EST_HUMAN	9q1703.x1 NCL CGAP_Brn23 Homo sapiens cDNA clone IMAGE:166801.3 3'
8505	19589	32821	0.78	4.0E-43	6968039	NT	Homo sapiens glycyl-tRNA synthetase (GARS), mRNA
7337	20308		1.94	4.0E-43	11416793	NT	Homo sapiens proboscidean beta 6 (PCDH6), mRNA
8518	21486	34900	5.73	4.0E-43	AI244341.1	EST_HUMAN	q17602.x1 NCL CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1865354 3' similar to contains MER10.13 MER10 repetitive element;
8518	21486	34901	5.73	4.0E-43	AI244341.1	EST_HUMAN	q17602.x1 NCL CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1865354 3' similar to contains MER10.13 MER10 repetitive element;
10878	23600	37095	1.39	4.0E-43	6009587	NT	Homo sapiens zinc finger protein 161 (ZNF161), mRNA
12306	25115		6.35	4.0E-43	R20950.1	EST_HUMAN	Y60505.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:31363 5' similar to contains MER10 repetitive element;
1218	14256		3.85	3.0E-43	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
1704	14734	27716	1.63	3.0E-43	X87869.1	NT	H sapiens gene encoding La autoantigen
3585	19631	29549	1.32	3.0E-43	S69002.1	NT	AML1-EV1-15AML1-EV1-1 fusion protein [rearranged translocation] [human, leukemic cell line SKH1, mRNA Mutant], 5938 nt
4319	17348	30232	1.02	3.0E-43	AA548154.1	EST_HUMAN	nk55d06.s1 NCL CGAP_P17 Homo sapiens cDNA clone IMAGE:1017419
5003	18017	30904	0.98	3.0E-43	AB037856.1	NT	Homo sapiens mRNA for KIAA1435 protein, partial cds
5424	18527	31405	0.51	3.0E-43	M59269.1	NT	Human cardioembryonic antigen (CEA) gene, exon 6
5424	18527	31406	0.51	3.0E-43	M59269.1	NT	Human cardioembryonic antigen (CEA) gene, exon 6
5596	19090	32277	0.9	3.0E-43	D34613.1	NT	Human TBXAS1 gene for thymoblastin synthase, promoter region and exon 1
6492	19557	32807	1.86	3.0E-43	7305360	NT	Mus musculus obelin (Obg), mRNA
6492	19557	32808	1.86	3.0E-43	7305360	NT	Mus musculus obelin (Obg), mRNA
6890	19942	33238	4.38	3.0E-43	U65487.1	NT	Human ribosomal RNA upstream binding transcription factor (UBTF) gene, partial cds
8503	21471		8.69	3.0E-43	AA458824.1	EST_HUMAN	aa88f1.1.s1 Stragene fetal retina 937202 Homo sapiens cDNA clone IMAGE:838413 3' similar to contains THR42 THR repetitive element;
9172	22138	35564	1.82	3.0E-43	7661721	NT	Homo sapiens hypochlorinase (HSA011916), mRNA
10223	23148	38837	0.6	3.0E-43	11420217	NT	Homo sapiens similar to ornithine carbonyltransferase (H. sapiens) (LOC83848), mRNA
185	13285		9.29	2.0E-43	A190784.1	EST_HUMAN	q61c09.x1 Soares_teste_NHT Homo sapiens cDNA clone IMAGE:1733988 3' similar to contains PTR7.13 PTR7 PTR7 repetitive element;
6620	19678	32955	0.95	2.0E-43	BE222776.1	EST_HUMAN	h359a08.x1 NCL CGAP_Brn41 Homo sapiens cDNA clone IMAGE:3173750 3' similar to contains element MER40 repetitive element;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6620	19676	32956	0.96	2.0E-43	BE222776.1	EST_HUMAN	hU53008.x1 NCL_CGAP_Brn41 Homo sapiens cDNA clone IMAGE:3173750 3' similar to contains element MER40 repetitive element;
7491	20499	33914	1.07	2.0E-43	AW207390.1	EST_HUMAN	UHHB1-af1-a-09-U1at1 NCL_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2721712 3'
8551	21473		9.34	2.0E-43	U437001.1	NT	Human fibronectin protein L23a mRNA, complete cds
11532	24473		2.96	2.0E-43	U03007.1	EST_HUMAN	FBI(G5 Fetal brain, Stragano Homo sapiens cDNA clone FB1(G5 3' end similar to LINE-1
1657	14699	27624	4.13	1.0E-43	AF154836.1	NT	Homo sapiens Ras-like GTP-binding protein (RAB27A) gene, exon 1b and 2
1657	14699	27695	4.13	1.0E-43	AF154836.1	NT	Homo sapiens Ras-like GTP-binding protein (RAB27A) gene, exon 1b and 2
1717	17477	27793	2.13	1.0E-43	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
2734	16728	28742	5.67	1.0E-43	BF348283.1	EST_HUMAN	60202313F1 NCL_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4157696 5'
5494	19594	31496	0.71	1.0E-43	4895544	NT	Homo sapiens pyruvate dehydrogenase kinase, isoenzyme 3 (PDK3) mRNA
6764	19818	33098	6.3	1.0E-43	4807168	NT	Homo sapiens Sp4 transcription factor (SP4) mRNA
6764	19818	33099	6.3	1.0E-43	4807168	NT	Homo sapiens Sp4 transcription factor (SP4) mRNA
7159	18391	31235	1.67	1.0E-43	R19751.1	EST_HUMAN	yg0ed01.11 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:34732 5' similar to SP-BD38, MOUSE P28656 BRAIN PROTEIN DN38;
8284	21233	34644	0.97	1.0E-43	AF175295.1	NT	Homo sapiens vacuolar sorting protein 33 (VPS35) mRNA, complete cds
8401	21370		3.15	1.0E-43	AF196490.1	NT	Homo sapiens 8222.1 region and MITG8 (GBFA2T1) gene, partial cds
9189	22155	35584	30.83	1.0E-43	AW968376.1	EST_HUMAN	EST1375749 MAGE resequences, MAGE Homo sapiens cDNA
10654	23576	37073	0.62	1.0E-43	AW968376.1	EST_HUMAN	EST1375749 MAGE resequences, MAGE Homo sapiens cDNA
11311	24281	37787	5.9	1.0E-43	A1984961.1	EST_HUMAN	wb7801.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2494705 3'
11693	24659	38236	3.35	1.0E-43	A1984961.1	EST_HUMAN	Homo sapiens calcium channel, voltage-dependent, alpha 1E subunit (CACNA1E), mRNA
12244	25074		2.8	1.0E-43	AL137954.1	EST_HUMAN	DKZ2p761D1015_11761 (synonym: ham2) Homo sapiens cDNA clone DKFZp761D1015 5'
12542	25265	31808	2.24	1.0E-43	A8754416.1	EST_HUMAN	wc38p04.x1 NCL_CGAP_P28 Homo sapiens cDNA clone IMAGE:2313775 3'
12745	25394	31757	2.8	8.0E-44	11418322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
891	13946	26904	7.09	8.0E-44	A1222985.1	EST_HUMAN	qh23g01.x1 Soares_NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:1845552 3'
891	13946	26905	7.09	8.0E-44	A1222985.1	EST_HUMAN	qh23g01.x1 Soares_NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:1845552 3'
8384	21850	35271	2.88	8.0E-44	X94354.1	NT	H sapiens DNA for Cone cGMP-PDE gene
10702	23624	37120	0.47	8.0E-44	11423497	NT	Homo sapiens small proline-rich protein 2C (SPRR2C), mRNA
10702	23624	37121	0.47	8.0E-44	11423497	NT	Homo sapiens small proline-rich protein 2C (SPRR2C), mRNA
11499	24442	37593	3.93	8.0E-44	Y10498.2	NT	Homo sapiens myosin mRNA for thymidine kinase, partial cds
11699	24872	38469	2.24	8.0E-44	L29139.1	NT	Homo sapiens myosin mRNA for thymidine kinase, partial cds
12495	25237	31901	2.95	8.0E-44	11527369	NT	Homo sapiens putative nuclear protein (HRHF62122), mRNA
12596	25577	31998	1.53	8.0E-44	11418066	NT	Homo sapiens putative nuclear protein (HRHF62122), mRNA
12870	25765	31516	2.68	8.0E-44	11418099	NT	Homo sapiens protein kinase C, alpha binding protein (PKCGBP), mRNA
13028	26577	31698	1.58	8.0E-44	11418088	NT	Homo sapiens putative nuclear protein (HRHF62122), mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
660	13278		0.87	7.0E-44	R06035.1	EST_HUMAN	y88a01.11 Soares fetal liver spleen 1NPLS Homo sapiens cDNA clone IMAGE:124920 5'
2243	15727	26283	0.95	7.0E-44	5031886	NT	Homo sapiens LIM domain-containing preferred translocation partner in thoma (LPT) mRNA
2971	16035	28957	2.68	7.0E-44	AF048729.1	NT	Homo sapiens minisatellite ms32 repeat region
2971	16035	28958	2.68	7.0E-44	AF048729.1	NT	Homo sapiens minisatellite ms32 repeat region
3878	18915	29524	2.55	7.0E-44	AL165284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4270	17298	30177	1.07	7.0E-44	AF231618.1	NT	Homo sapiens chromosome 21 unknown mRNA
4270	17299	30178	1.07	7.0E-44	AF231618.1	NT	Homo sapiens serine palmitoyl transferase, subunit II gene, complete cds, and unknown genes
5168	18177	31055	1.04	7.0E-44	AF111685.2	NT	AU159839 Y79A11 Homo sapiens cDNA clone Y79AA1000496 3'
8526	21454	34008	5.87	7.0E-44	AF115963.1	EST_HUMAN	HSAADDEYLP Human fetal Brain Whole tissue Homo sapiens cDNA
9223	19257	32531	0.55	6.0E-44	Z20948.1	EST_HUMAN	EST386120 MAGE reserquizes, MAGE Homo sapiens cDNA
12070	24943	38538	1.93	6.0E-44	AW854050.1	EST_HUMAN	Homo sapiens KIAA0051 gene (partial), X73 gene and LZTFL1 gene
303	13397		3.9	5.0E-44	AJ289880.1	NT	Homo sapiens KIAA0051 gene (partial), X73 gene and LZTFL1 gene
332	13421		2.88	5.0E-44	AJ289880.1	NT	tr4002.x1 NCI CGAP Bn25 Homo sapiens cDNA clone IMAGE:2170083 3' similar to contains OPR.11
8220	21199	34598	3.85	5.0E-44	AI568523.1	EST_HUMAN	OFR OFR repetitive element
9739	22767		2.65	5.0E-44	AU124571.1	EST_HUMAN	AU124571 NT2RM4 Homo sapiens cDNA clone NT2RM4000218 5'
3425	16473	29392	3.2	4.0E-44	AL168303.2	NT	Homo sapiens chromosome 21 segment HS21C103
5090	18062		1.02	4.0E-44	AI435225.1	EST_HUMAN	311d02.x1 NCI CGAP Pan1 Homo sapiens cDNA clone IMAGE:2130147 3'
7711	20688	34035	0.65	4.0E-44	BE883178.1	EST_HUMAN	901508601F1 NIH_MGC 71 Homo sapiens cDNA clone IMAGE:3910152 5'
8514	21592	34898	0.64	4.0E-44	L21948.1	NT	Homo fibrillin (FBN1) locus polymorphism
9230	22196		0.49	4.0E-44	BE176818.1	EST_HUMAN	RC3-H10585-010400-023-208 HT0685 Homo sapiens cDNA
11589	24608	39065	8.23	4.0E-44	U0878.1	NT	Homo sapiens carboxyl terminal LIM domain protein (CUM1) mRNA, complete cds
1801	14829		0.95	3.0E-44	6912477.1	NT	Homo sapiens keratohelath alpha 8 (Importin alpha 7) (KPA6), mRNA
2537	15539	29562	0.95	3.0E-44	BE880626.1	EST_HUMAN	801481528F1 NIH_MGC 89 Homo sapiens cDNA clone IMAGE:3853859 5'
3114	16171	29081	6.12	3.0E-44	AA169851.1	EST_HUMAN	2p18005.r1 Striatogene fetal retina 937202 Homo sapiens cDNA clone IMAGE:509777 5'
3905	16945	29858	1.71	3.0E-44	AA337244.1	EST_HUMAN	EST42299 Endometrial tumor Homo sapiens cDNA 5' and similar to alpha-1-antitrypsinase F
8074	21011	34410	0.55	3.0E-44	BE894820.1	EST_HUMAN	801510347F1 NIH_MGC 71 Homo sapiens cDNA clone IMAGE:3912010 5'
9877	22830	36284	0.58	3.0E-44	AF005273.1	NT	Sus scrofa domestica submaxillary apomucin mRNA, complete cds
1051	14097	27047	1.04	2.0E-44	4826985	NT	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 1 (DDX1) mRNA
1051	14097	27048	1.04	2.0E-44	4826985	NT	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 1 (DDX1) mRNA
1212	14290	27208	2.52	2.0E-44	5903200	NT	Homo sapiens transmembrane trafficking protein (TMP21), mRNA
1212	14290	27208	2.52	2.0E-44	5903200	NT	Homo sapiens transmembrane trafficking protein (TMP21), mRNA
1315	14350	27318	5.49	2.0E-44	AF133588.1	NT	Homo sapiens RAB38 (RAB38) mRNA, complete cds

Table 4

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLASTE Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1370	14404	27374	1.05	2.0E-44	BE465325.1	EST_HUMAN	hwt4g06.xt NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3162938 3' similar to SW_OXYB_HUMAN
2191	15177	28189	2.57	2.0E-44	AF070951.1	NT	P22059 OXYSTEROL-BINDING PROTEIN ;
2618	16918		2.01	2.0E-44	5901833	NT	Homo sapiens tissue-type bone marrow zinc finger protein 4 mRNA, complete cds
3464	16550	29455	1.18	2.0E-44	CB7875.1	NT	Homo sapiens adaptor-related protein complex 4, sigma 1 subunit (CLAPS4), mRNA
4600	17621	30574	1.8	2.0E-44	AW864379.1	EST_HUMAN	Homo sapiens DNA for amyloid precursor protein, complete cds
6214	19288	32521	1.59	2.0E-44	11448901	NT	HM-SN0016-120500-003-404 SN0016 Homo sapiens cDNA
7037	18369	31259	1.73	2.0E-44	AF038968.1	NT	Homo sapiens chemokine (C-C motif) receptor 9 (CCR9), mRNA
7645	20605	33270	3.8	2.0E-44	11416228	NT	Homo sapiens general transcription factor 2-1 (GTF2i) mRNA, alternatively spliced product, complete cds
7645	20605	33971	3.8	2.0E-44	11416228	NT	Homo sapiens glutamate receptor, metabotropic 3 (GRM3), mRNA
8771	21738	35159	0.72	2.0E-44	7706370	NT	Homo sapiens glutamate receptor, metabotropic 3 (GRM3), mRNA
8771	21738	35159	0.72	2.0E-44	7706370	NT	Homo sapiens vesicle transport-related protein (KIA00917), mRNA
8968	21932	35357	1.83	2.0E-44	BE386038.1	EST_HUMAN	Homo sapiens vesicle transport-related protein (KIA00917), mRNA
12152	25010		1.44	2.0E-44	BE244902.1	EST_HUMAN	601288914F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3613686 5'
12695	25998		1.32	2.0E-44	4628883	NT	TCBAP12765 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP2765
13047	25967		1.59	2.0E-44	11526283	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
54	13174	26084	7.76	1.0E-44	7657334	NT	Homo sapiens cell eye syndrome chromosome region, candidate 1 (CECR1), mRNA
54	13174	26085	7.76	1.0E-44	7657334	NT	Homo sapiens Mashapen/NIK-related kinase (MINNK), mRNA
582	13650	26564	1.85	1.0E-44	AW853132.1	EST_HUMAN	Homo sapiens Mashapen/NIK-related kinase (MINNK), mRNA
12021	14241		1.85	1.0E-44	AW894803.1	EST_HUMAN	RCT-C10249-030300-028-112 C10249 Homo sapiens cDNA
1577	14610		7.03	1.0E-44	AL165303.2	NT	RC1-BN0039-110300-012-601 BN0039 Homo sapiens cDNA
2223	15247	28270	4.49	1.0E-44	AA434554.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C103
2223	15247	28271	4.49	1.0E-44	AA434554.1	EST_HUMAN	zms3402.r1 Soares, total_fetus_ND2HF8_gw Homo sapiens cDNA clone IMAGE:773765 5' similar to contains THR13 THR repetitive element ;
2260	15869	28527	0.95	1.0E-44	AA390899.1	EST_HUMAN	containing THR13 THR repetitive element ;
2770	15762	28763	2.5	1.0E-44	AF196778.1	NT	z88911.r1 Soares, testis_NHT Homo sapiens cDNA clone IMAGE:729478 5'
3736	16780		3.01	1.0E-44	AA455659.1	EST_HUMAN	Homo sapiens transcription factor IGHM enhancer 3, JM11 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synophylin genes, complete cds; and L-type calcium channel 2a
5155	18165	31043	0.84	1.0E-44	AI130755.1	NT	aa01009.s1 Soares, NIHMPu_S1 Homo sapiens cDNA clone IMAGE:811884 3'
5195	18195	31044	0.84	1.0E-44	AI130755.1	NT	Homo sapiens alpha satellite DNA, M1 monomer type

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Describer
8608	21576	34991	1.17	1.0E-44	AW967073.1	EST_HUMAN	EST1379147 MAGC resequences, MAGJ Homo sapiens cDNA
8608	21576	34992	1.17	1.0E-44	AW967073.1	EST_HUMAN	EST1379147 MAGC resequences, MAGJ Homo sapiens cDNA
8693	21989	35385	1.23	1.0E-44	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
9381	22346	35778	0.99	1.0E-44	AI337183.1	EST_HUMAN	qga007.x1 NCI CGAP, G68 Homo sapiens cDNA clone IMAGE:2005628 3'
11354	24304		12.74	1.0E-44	AV714608.1	EST_HUMAN	AV714608 DGB Homo sapiens cDNA clone DGBVE03 5'
11858	24740	38325	3.23	1.0E-44	10092864	NT	Homo sapiens Sushi domain (SCR repeat) containing (BK65A6.2), mRNA
11917	24768	38389	2.7	1.0E-44	AW846967.1	EST_HUMAN	RC1-CT0198-150969-011-C08 CT0198 Homo sapiens cDNA
11917	24768	38389	2.7	1.0E-44	AW846967.1	EST_HUMAN	RC1-CT0198-150969-011-C08 CT0198 Homo sapiens cDNA
4608	17630	30522	1.16	9.0E-45	8922391	NT	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA
4608	17630	30523	1.16	9.0E-45	8922391	NT	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA
6806	19600	33147	1.52	9.0E-45	AB023212.1	NT	Homo sapiens TRK-fused gene (NOTE: non-standard symbol and name) (TFG) mRNA
2529	15532	28553	1.57	8.0E-45	5174718	NT	Homo sapiens TRK-fused gene (NOTE: non-standard symbol and name) (TFG) mRNA
5119	18128	31005	8.66	8.0E-45	5174718	NT	Homo sapiens TRK-fused gene (NOTE: non-standard symbol and name) (TFG) mRNA
8444	21413	34627	0.85	8.0E-45	AA377965.1	EST_HUMAN	EST190893 Spindle sarcoma Homo sapiens cDNA 5' end
2958	19027		0.96	7.0E-45	AL160131.1	NT	Novel human gene mapping to chromosome 22
15563	14368		1	6.0E-45	AB75425.1	EST_HUMAN	wb86c06.x1 NCI CGAP, P28 Homo sapiens cDNA clone IMAGE:2313802 3' similar to contains L1,11 L1 repetitive element;
4003	17042		3.48	6.0E-45	AW157570.1	EST_HUMAN	eu03107.x1 Schneider fetal brain 00094 Homo sapiens cDNA clone IMAGE:2762609 3' similar to
12608	28948		1.53	6.0E-45	11418213	NT	SW-R13A, HUMAN P40429 60S RIBOSOMAL PROTEIN L13A:
893	13948		1.96	5.0E-45	AL163203.2	NT	Homo sapiens ADP-ribosylation factor GTPase activating protein 1 (ARFGAP1), mRNA
2018	15039	28050	4.96	5.0E-45	BF333627.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C003
3223	16278	28203	1.49	5.0E-45	AE523766.1	EST_HUMAN	GM4-CN0044-180200-515-01 CN0044 Homo sapiens cDNA
5580	18696	31654	8.41	5.0E-45	AA397781.1	EST_HUMAN	tg0407.x1 NCI CGAP, QLL1 Homo sapiens cDNA clone IMAGE:2116453 3' similar to SW:PAX1_MOUSE
6135	19212	32439	1.48	5.0E-45	Y18933.1	NT	P09084 PAIRED BOX PROTEIN PAX-1:
6135	19212	32440	1.48	5.0E-45	Y18933.1	NT	27203.s1 Soares, testis, NIH Homo sapiens cDNA clone IMAGE:727877 3' similar to contains element TART repetitive element;
6183	19258	32491	0.84	5.0E-45	AB022318.1	NT	TART repetitive element;
6183	19258	32492	0.84	5.0E-45	AB022318.1	NT	Homo sapiens MCP-1 gene and enhancer region
6313	19384	32625	1.07	5.0E-45	11486268	NT	Homo sapiens MCP-1 gene and enhancer region
6313	19384	32628	1.07	5.0E-45	11486268	NT	Homo sapiens mRNA for inducible nitric oxide synthase, complete cds
8619	21587	35003	0.66	5.0E-45	11418704	NT	Homo sapiens mRNA for inducible nitric oxide synthase, complete cds
8619	21587	35003	0.66	5.0E-45	11418704	NT	Homo sapiens zinc finger protein 277 (ZNF277), mRNA
8696	22361	35792	1.26	5.0E-45	4759223	NT	Homo sapiens zinc finger protein 277 (ZNF277), mRNA
8696	22361	35792	1.26	5.0E-45	4759223	NT	Homo sapiens bone morphogenetic protein 5 (BMP5), mRNA
8696	22361	35792	1.26	5.0E-45	4759223	NT	Homo sapiens programmed cell death 5 (PDCD5), mRNA

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12003	24880	38476	2.3	5.0E-48	8923998	NT	Homo sapiens golgin-like protein (GLP), mRNA
1146	14188	27139	10.78	4.0E-45	X95828.1	NT	H. sapiens ART4 gene
2259	15311	28331	1.91	4.0E-46	BE26922.1	EST_HUMAN	60119444071 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3538425 5'
4535	17558	30446	0.72	4.0E-46	4759249	NT	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA
9308	22273		0.89	4.0E-46	AA22620.1	EST_HUMAN	m29607.s1 NCI_CGAP_P41 Homo sapiens cDNA clone IMAGE:1009284 similar to contains element L1 repetitive element:
12167	25994	31418	1.4	4.0E-46	11435947	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
4115	16393		0.89	3.0E-46	T71480.1	EST_HUMAN	y43907.1 Sacres fetal liver spleen INF1S Homo sapiens cDNA clone IMAGE:110245 5'
6364	19433	32676	1.13	3.0E-46	6753651	NT	Mus musculus dyx1n, exon, heavy chain 11 (Dnabcl1), mRNA
6364	19433	32677	1.13	3.0E-46	6753651	NT	Mus musculus dyx1n, exon, heavy chain 11 (Dnabcl1), mRNA
8794	21761	35535	1.53	3.0E-46	AV728976.1	EST_HUMAN	AY728978 HTB Homo sapiens cDNA clone HTBAAG01 5'
9143	22109	37087	3.82	3.0E-46	4759451	NT	Homo sapiens golgi autoantigen, golgin subfamily a, 2 (GOLGA2) mRNA
10670	23592	37087	10.98	3.0E-46	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
10670	23592	37088	10.98	3.0E-46	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
12954	23688		4.13	3.0E-46	X86211.1	NT	H. sapiens DNA for endogenous retroviral like element
2511	15514		1.96	2.0E-46	AL163216.2	NT	Homo sapiens chromosome 21 segment HS21C016
3045	18102	29016	1.6	2.0E-46	AJ243213.1	NT	Homo sapiens partial 5-HT4 receptor gene, exons 2 to 5
6871	19728	33004	5.17	2.0E-46	L01665.1	NT	Human eschschol Charcot-Leyden crystal (CLC) protein (lycophospholipase) gene, promoter and exon 1
7658	20812	34188	1.25	2.0E-46	BE782184.1	EST_HUMAN	601467793F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:387038 5'
8758	21725	35148	1.08	2.0E-46	AW624834.1	EST_HUMAN	RCOL-TD001-150200-032-011 LT0001 Homo sapiens cDNA
11154	25704	37639	25.96	2.0E-46	BE934350.1	EST_HUMAN	MRO-H10923-1B0800-201-a92 HT0923 Homo sapiens cDNA
11611	24452	38002	3.5	2.0E-46	AA458770.1	EST_HUMAN	aa8711.12 Stridalgene fetal retina 937022 Homo sapiens cDNA clone IMAGE:838319 5' similar to TR.G1144509 G1144509 R-SLY1, . . .
11832	24715	38286	1.97	2.0E-45	AW270280.1	EST_HUMAN	xp72a03 x1 NCI_CGAP_Ov40 Homo sapiens cDNA clone IMAGE:2745963 3'
11832	24715	38300	1.67	2.0E-45	AW270280.1	EST_HUMAN	xp72a03 x1 NCI_CGAP_Ov40 Homo sapiens cDNA clone IMAGE:2745963 3'
12659	26565		3.46	2.0E-48	11418157	NT	Homo sapiens calcium channel, voltage-dependent, alpha 11 subunit (CACNA11), mRNA
124	13482		1.84	1.0E-45	BE389855.1	EST_HUMAN	601284380F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3508183 5'
409	13492		2.09	1.0E-46	BE389855.1	EST_HUMAN	601284380F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3508183 5'
473	13545	26741	1.93	1.0E-46	4506412	NT	Homo sapiens RAP1A, member of RAS oncogene family (RAP1A), mRNA
1178	14219	27175	1.94	1.0E-46	7657290	NT	Homo sapiens Langerhans cell specific ch-type lectin (LANGERIN), mRNA
3120	16177	29088	7.12	1.0E-48	U32169.1	NT	Human pro-alpha chain of collagen type XI (COL11A2) gene, complete cds
3503	16550	29477	0.84	1.0E-46	8659558	NT	Homo sapiens chromosome 21 open reading frame 1 (C21orf4), mRNA
4503	17528	30413	4.06	1.0E-46	BE396533.1	EST_HUMAN	601289176F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3918803 5'

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4757	17777		1.01	1.0E-45	H67443.1	EST_HUMAN	y05002.r1 Soares fetal liver spleen: 1NfLS Homo sapiens cDNA clone IMAGE:204363 5'
8365	21334	34745	0.57	1.0E-45	11422236	NT	Homo sapiens peroxisomal biogenesis factor 14 (PEX14), mRNA
8365	21334	34746	0.57	1.0E-45	11422238	NT	Homo sapiens peroxisomal biogenesis factor 14 (PEX14), mRNA
8954	21820	35346	0.85	1.0E-45	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
9476	22440	35680	4.82	1.0E-45	BE387843.1	EST_HUMAN	80151128F NIH_MGC 71 Homo sapiens cDNA clone IMAGE:3912635 5'
9890	22833	36287	1.03	1.0E-45	AB002297.1	NT	Human mRNA for KIAA0299 gene, partial cds
12369	26165	31656	9.31	1.0E-45	11418069	NT	Homo sapiens protein kinase G, alpha binding protein (PRKGABP), mRNA
12551	26274		9.31	1.0E-45	11525291	NT	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
12556	26277		6.48	1.0E-45	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
12562	26532	31715	3.98	1.0E-45	11418157	NT	Homo sapiens calcium channel, voltage-dependent, alpha 1I subunit (CACNA1I), mRNA
8570	21538	34959	1.68	9.0E-46	9910263	NT	Mus musculus keratin complex 2, gene 5g (K12-5g), mRNA
8981	21947		7.02	9.0E-46	AL183208.2	NT	Homo sapiens chromosome 21 segment HS21C009
10845	23765	37264	9.09	9.0E-46	AW1245964.1	EST_HUMAN	2822449 5prime NIH_MGC 7 Homo sapiens cDNA clone IMAGE:2822449 5'
2449	15453	28474	11.23	8.0E-46	A1432281.1	EST_HUMAN	832108.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2132199 3' similar to gb:J00314_rna2
2449	15453	28475	11.23	8.0E-46	A1432281.1	EST_HUMAN	TUBULIN BETA-1 CHAIN (HUMAN);
8398	21358		6.79	8.0E-46	BE187244.1	EST_HUMAN	832108.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2132199 3' similar to gb:J00314_rna2
2248	15262	28289	1.17	7.0E-46	U16007.1	NT	TUBULIN BETA-1 CHAIN (HUMAN);
4811	17632		3.58	7.0E-46	BE386165.1	EST_HUMAN	Rattus norvegicus espin mRNA, complete cds
4845	17862		1.14	7.0E-46	BE094366.1	EST_HUMAN	601277292F NIH_MGC 20 Homo sapiens cDNA clone IMAGE:3618119 5'
6160	19235	32456	3.92	7.0E-46	8922708	NT	RC4-BT10310-110300-015-10 BT10310 Homo sapiens cDNA
6942	19700	32676	1.95	7.0E-46	BF105945.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ10847 (FLJ10847), mRNA
2765	15757	28778	5.63	6.0E-46	A1884381.1	EST_HUMAN	801822935F NIH_MGC 77 Homo sapiens cDNA clone IMAGE:4042736 5'
2765	15757	28779	5.63	6.0E-46	A1884381.1	EST_HUMAN	Wt31708.x1 NCI_CGAP_U14 Homo sapiens cDNA clone IMAGE:2437576 3' similar to contains MER19.12
6252	19825	32556	10.15	6.0E-46	A1635448.1	EST_HUMAN	MER19 repetitive element;
7428	20393	33743	0.76	6.0E-46	AW1513244.1	EST_HUMAN	Wt31708.x1 NCI_CGAP_U14 Homo sapiens cDNA clone IMAGE:2437576 3' similar to contains MER19.12
7609	20570	33933	0.51	6.0E-46	BF509740.1	EST_HUMAN	MER19 repetitive element;
205	13308		6.47	5.0E-46	AL163210.2	NT	Is6810.x1 NCI_CGAP_K148 Homo sapiens cDNA clone IMAGE:2232835 3' similar to TR:060383 060383
3339	16595	29508	1.01	5.0E-46	BE677194.1	EST_HUMAN	SA GENE;
							ncs260.x1 NCI_CGAP_U11 Homo sapiens cDNA clone IMAGE:2706654 3' similar to gb:J08069 DNAJ
							PROTEIN HOMOLOG 2 (HUMAN);
							U1H-B14-aps-B-06-0-U1.r1 NCI_CGAP_SubB Homo sapiens cDNA clone IMAGE:3087298 3'
							Homo sapiens chromosome 21 segment HS21C010
							7d81.g01.x1 Lipekt_dorsal_root_ganglion Homo sapiens cDNA clone IMAGE:3279408 3'

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3539	16565	28509	1.01	5.0E-46	BE677194.1	EST_HUMAN	7d81g01.x1 Lapski_dorsal_pcd ganglion Homo sapiens cDNA clone IMAGE:3279408 3'
8899	19951	33248	1.64	5.0E-46	BF590442.1	EST_HUMAN	na38897.x1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3258757 3' similar to TR.O75202
7128	20104	33415	3.97	5.0E-46	BF347226.1	EST_HUMAN	O75032 HOMOLOG OF RAT KIDNEY-SPECIFIC ;
7302	20273	33609	0.87	5.0E-46	AW592253.1	EST_HUMAN	90202116AF1 NCL CGAP_Bmi67 Homo sapiens cDNA clone IMAGE:4196870 5'
7614	20574	33938	0.56	5.0E-46	BE549744.1	EST_HUMAN	QV4-S10212-120100-075-109 ST0212 Homo sapiens cDNA
							7b38b05.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3230481 3'
642	13708		2.88	4.0E-46	AA601143.1	EST_HUMAN	nc54608.x1 NCL CGAP_ES1 Homo sapiens cDNA clone IMAGE:1104520 3' similar to gb.X53741_ma1 FIBULIN-1, ISOFORM A PRECURSOR (HUMAN);
1715	14745	27729	7.91	4.0E-46	AW770544.1	EST_HUMAN	hi86c03.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3008836 3' similar to gb.X14008_ma1 LYSOZYME C PRECURSOR (HUMAN);contains element MER37 repetitive element ;
1715	14746	27730	7.91	4.0E-46	AW770544.1	EST_HUMAN	hi86c03.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3008836 3' similar to gb.X14008_ma1 LYSOZYME C PRECURSOR (HUMAN);contains element MER37 repetitive element ;
2749	15742	28759	3.26	4.0E-46	M18048.1	NT	Human endogenous retrovirus RTVL-H2
4447	17473	30361	0.95	4.0E-46	AB014522.1	NT	Homo sapiens mRNA for KIAA0622 protein, partial cds
4447	17473	30362	0.95	4.0E-46	AB014522.1	NT	Homo sapiens mRNA for KIAA0622 protein, partial cds
5184	18203	31077	0.78	4.0E-46	BE044260.1	EST_HUMAN	nc42a07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:3040020 3'
5184	18203	31077	0.78	4.0E-46	BE044260.1	EST_HUMAN	nc42a07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:3040020 3'
5511	18611	31542	2.11	4.0E-46	M36852.1	NT	Human Ig germline gamma-3 heavy-chain gene V region, partial cds
5511	18611	31543	2.11	4.0E-46	M36852.1	NT	Human Ig germline gamma-3 heavy-chain gene V region, partial cds
12782	25422	31737	2.51	4.0E-46	AB002359.1	NT	Homo sapiens DNA for Human P2XM, complete cds
4421	17448	30339	1.21	3.0E-46	4508376	NT	Homo sapiens mitogen-activated protein kinase kinase kinase 3 (MAP4K3), mRNA
4809	17826	30722	2.84	3.0E-46	Z73960.1	NT	H sapiens Ig lambda light chain variable region gene (7c.11.2) germline; Ig-Lambda; VLambda
4809	17826	30723	2.84	3.0E-46	Z73960.1	NT	H sapiens Ig lambda light chain variable region gene (7c.11.2) germline; Ig-Lambda; VLambda
9102	22098	35494	10	3.0E-46	AI831462.1	EST_HUMAN	W4604.x1 NCL CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2406150 3' similar to contains THR.b2 THR repetitive element ;
9359	22323	35750	0.59	3.0E-46	L08850.1	NT	Human AD amyloid mRNA, complete cds
9359	22323	35751	0.59	3.0E-46	L08850.1	NT	Human AD amyloid mRNA, complete cds
11898	24779	38365	2.01	3.0E-46	D31765.1	NT	Human mRNA for KIAA0061 gene, partial cds
8318	13805	26850	10.84	2.0E-46	AA468648.1	EST_HUMAN	nc05a09.s1 NCL CGAP_Cu3 Homo sapiens cDNA clone IMAGE:880408 3' similar to contains THR.b2 THR repetitive element ;

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top Hit) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1564	14597		2.13	2.0E-46	AA678246.1	EST_HUMAN	z27611.1 Sources: fetal_liver_spleen, INFLS, S1 Homo sapiens cDNA clone IMAGE:431896 3'
1647	14679	27652	4.43	2.0E-46	U76027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and F1P3 (F1P3) genes, complete cds
5010	18024	30910	1.06	2.0E-46	AA395286.1	EST_HUMAN	z59602.1 Sources: testis, NHT Homo sapiens cDNA clone IMAGE:726650 5' similar to SW:RSP_1_MOUSE
8004	21373	34046	7.69	2.0E-46	8910569	NT	CO1730 RSP-1 PROTEIN, .
11576	24514		1.18	2.0E-46	BE869151.1	EST_HUMAN	Mus musculus sperm tail associated protein (Slap), mRNA
12857	25741	31619	1.82	2.0E-46	7657233	NT	601445137F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3849297 5'
1237	14273	27233	3.22	2.0E-46	AW27214.1	EST_HUMAN	Homo sapiens small acidic protein (IMAGE145052), mRNA
2289	15302	28326	6.68	1.0E-46	4502694	NT	xg76h03.x1 NCI CGAP Lu84 Homo sapiens cDNA clone IMAGE:2766789 3'
2409	15416	28440	3.26	1.0E-46	AW978516.1	EST_HUMAN	Homo sapiens cell division cycle 10 (homologous to CDC10 of S. cerevisiae) (CDC10) mRNA
3262	16316	29236	2.9	1.0E-46	H97530.1	EST_HUMAN	EST390025 IMAGE: ressequences, MAGP Homo sapiens cDNA
4908	17925		1.32	1.0E-46	AA631912.1	EST_HUMAN	EST480065 WATM1 Homo sapiens cDNA clone 480055
5794	18876	32058	2.93	1.0E-46	AB023197.1	NT	np78602.s1 NCI CGAP_P12 Homo sapiens cDNA clone IMAGE:1132395 similar to gb:X78717 H.sapiens mt-11 mRNA, (HUMAN);
6089	25653	32362	7.06	1.0E-46	BF194707.1	EST_HUMAN	Homo sapiens mRNA for KIAA0980 protein, partial cds
6089	25653	32383	5.57	1.0E-46	8623762	NT	7692901.x1 NCI CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3643705 3'
6756	19820	33102	0.65	1.0E-46	BF196247.1	EST_HUMAN	Homo sapiens centaurin-alpha 2 protein (HSA272195), mRNA
11211	18875	32055	3.51	1.0E-46	BF194707.1	EST_HUMAN	Homo sapiens centaurin-alpha 2 protein (HSA272195), mRNA
12322	25124	31845	1.52	1.0E-46	BF531102.1	EST_HUMAN	7n48e07.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3567852 3' similar to contains element MER22 repetitive element;
12322	25124	31846	1.52	1.0E-46	BF531102.1	EST_HUMAN	7692901.x1 NCI CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3643705 3'
13069	25900		4.54	1.0E-46	AV715377.1	EST_HUMAN	602072294F1 NCI CGAP_Bm87 Homo sapiens cDNA clone IMAGE:4215308 5'
767	13826		3.24	9.0E-47	AJ271735.1	NT	602072294F1 NCI CGAP_Bm87 Homo sapiens cDNA clone IMAGE:4215308 5'
4968	17983	30873	3.91	9.0E-47	AW770928.1	EST_HUMAN	AV715377 DCB Homo sapiens cDNA clone DCBAIE03 5'
6513	19577	32832	1.56	9.0E-47		NT	Homo sapiens Xq pseudautosomal region; segment 1/2
12816	25843	31432	2.25	9.0E-47	Y11417968	NT	H89404.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3009534 3' similar to TR:O75703 O75703
1825	14852	27846	47.72	8.0E-47	Y18536.1	NT	HYPOTHETICAL 12.4 KD PROTEIN, .
1825	14852	27847	47.72	8.0E-47	Y18536.1	NT	Homo sapiens zinc finger protein ZNF286 (ZNF286), mRNA
2728	15722	28738	1.77	8.0E-47		NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
3035	16094	29012	2.12	8.0E-47	AJ229043.1	NT	Homo sapiens HLA-C gene, exon 5, individual 19323
							Homo sapiens HLA-C gene, exon 5, individual 19323
							Homo sapiens protein phosphatase 2, regulatory subunit B (B56), epsilon isoform (PPP2R5E) mRNA
							Homo sapiens 959 kb contig between AVL1 and CBR1 on chromosome 21q22, segment 3/3

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3640	16883	29598	0.78	8.0E-47	AB041928.1	NT	Homo sapiens mRNA for GCK family kinase MINK-2, complete cds
3640	16883	29599	0.78	8.0E-47	AB041928.1	NT	Homo sapiens mRNA for GCK family kinase MINK-2, complete cds
5254	18292	31131	0.65	8.0E-47	7692421.1	NT	Homo sapiens KIAA0971 protein (KIAA0971), mRNA
2555	15557	28575	2.2	6.0E-47	AL183246.2	NT	Homo sapiens chromosome 21 segment HS21C046
6040	22806	35427	0.49	6.0E-47	U77054.1	EST	HSU77054 Human Homo sapiens cDNA clone N7
9831	22575	39025	6.5	6.0E-47	AI695189.1	EST	tsBRH02.x1 NCI CGAP Kid17 Homo sapiens cDNA clone IMAGE:2286859 3'
10070	22937	39465	0.98	6.0E-47	AB042924.1	NT	Homo sapiens RECOL5 beta mRNA for DNA helicase rec5 beta, complete cds
10070	22937	39465	0.98	6.0E-47	AB042924.1	NT	Homo sapiens RECOL5 beta mRNA for DNA helicase rec5 beta, complete cds
6729	19785	33064	6.56	5.0E-47	11423972	NT	Homo sapiens CDC37 (cell division cycle 37, S. cerevisiae; homolog) (CDC37), mRNA
11147	24107	41140	4.8	5.0E-47	M78590.1	EST	EST100738 Fetal brain, Strategene (cuff6393208) Homo sapiens cDNA clone HFCB07
11409	14433	27403	4.48	4.0E-47	4557558	NT	Homo sapiens EIA binding protein p300 (EP300) mRNA
7006	21192	33447	0.98	4.0E-47	BE836896.1	EST	MR4-TN0108-280900-201-404 TN0108 Homo sapiens cDNA
8625	21782	35214	2.45	4.0E-47	BE616483.1	EST	601280466F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3622437 5'
8625	21782	35215	2.45	4.0E-47	BE616483.1	EST	601280466F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3622437 5'
8965	21931	35356	0.81	4.0E-47	AW69377.1	EST	RC3-BN0034-229300-0765405 BN0034 Homo sapiens cDNA
11854	24833		5.51	4.0E-47	AW515509.1	EST	x65607.x1 NCI CGAP Lym12 Homo sapiens cDNA clone IMAGE:284897 3' similar to SW:INT6_MOUSE
546	13617	28538	1.73	3.0E-47	BE807634.1	EST	Q64252 VIRAL INTEGRATION SITE PROTEIN INT-6, [1]:
546	13617	28539	1.73	3.0E-47	BE807634.1	EST	601497639F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3889721 5'
819	13677	28626	6.7	3.0E-47	NT57483.1	EST	601497639F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3889721 5'
944	13967	28949	7.66	3.0E-47	AL163284.2	NT	y64504.6.1 Soares_multiple_scleriosis_ZNHBMSF Homo sapiens cDNA clone IMAGE:277327 3'
3315	16368	29238	0.7	3.0E-47	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRK1) mRNA
3960	17030		6.21	3.0E-47	U93181.1	NT	Homo sapiens nuclear dual-specificity phosphatase (SBF) mRNA, partial cds
4389	17417	30301	0.98	3.0E-47	M12959.1	NT	Human T-cell receptor active alpha-chain mRNA from JM cell line, complete cds
6128	19206	32429	4.76	3.0E-47	AW409800.1	EST	UJ-HF-BM0-adv-d-07-Q-UJ-1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3063205 5'
6128	19206	32430	4.76	3.0E-47	AW409800.1	EST	UJ-HF-BM0-adv-d-07-Q-UJ-1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3063205 5'
6718	19772		1.72	3.0E-47	AJ222413.1	EST	q04407.x1 Soares_NEL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:1843716 3'
7608	20569	33931	0.59	3.0E-47	AI819765.1	EST	y11H08.x1 NCI CGAP Kid17 Homo sapiens cDNA clone IMAGE:2402569 3'
7608	20569	33932	0.59	3.0E-47	AI819755.1	EST	y11H08.x1 NCI CGAP Kid12 Homo sapiens cDNA clone IMAGE:2402569 3'
9185	22151	33579	0.59	3.0E-47	AW963796.1	EST	EST1375669 MAGE_ressequenes, MAGE Homo sapiens cDNA
9185	22151	33580	0.59	3.0E-47	AW963796.1	EST	EST1375669 MAGE_ressequenes, MAGE Homo sapiens cDNA
148	13252	28161	1.57	2.0E-47	4503818	NT	Homo sapiens myosin phosphatase, target subunit 2 (MYPT2), mRNA
969	14021	26973	2.24	2.0E-47	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
969	14021	26974	2.24	2.0E-47	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1570	14803		1.08	2.0E-47	AB69279.1	EST_HUMAN	wg95b02.x1 NCI CGAP G08 Homo sapiens cDNA clone IMAGE:2479851 3'
1597	14626	27604	2.2	2.0E-47	7692109	NT	1943912.61 NCI CGAP C03 Homo sapiens cDNA clone IMAGE:937607 3'
1687	14718	27608	3.87	2.0E-47	AA524514.1	EST_HUMAN	1943912.61 NCI CGAP C03 Homo sapiens cDNA clone IMAGE:937607 3'
4374	17402	30282	1.82	2.0E-47	4504866	NT	Homo sapiens ring finger protein (C3HC4 type) 8 (RNF8), mRNA
4411	17439	30327	1.48	2.0E-47	AA568982.1	EST_HUMAN	1943912.61 NCI CGAP P1 Homo sapiens cDNA clone IMAGE:914652
4411	17439	30328	1.48	2.0E-47	AA568982.1	EST_HUMAN	1943912.61 NCI CGAP P1 Homo sapiens cDNA clone IMAGE:914652
4534	17557	30445	1.68	2.0E-47	5174848	NT	Homo sapiens Rev1/Rev activation domain binding protein-related (RAB-R) mRNA
4850	17867	30760	1.22	2.0E-47	AW965166.1	EST_HUMAN	EST137239 IMAGE: ressequences, MAGI Homo sapiens cDNA
5187	18196		0.7	2.0E-47	A041126.1	EST_HUMAN	061103.x1 Scores, testis, NIH Homo sapiens cDNA clone IMAGE:1641845 3'
5890	18969	32160	1.22	2.0E-47	AF073921.1	NT	Homo sapiens regulator of G-protein signaling 6 variant form (RGSS) mRNA, complete cds
6088	19168	32380	1.29	2.0E-47	BE778475.1	EST_HUMAN	601463932F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3887487 5'
6088	19168	32381	1.29	2.0E-47	BE778475.1	EST_HUMAN	601463932F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3887487 5'
7684	25692		1.43	2.0E-47	L09731.1	NT	Homo sapiens 8-hydroxytryptamine 1D receptor pseudogene with an A1u repeat insertion
8297	21268	34677	1.76	2.0E-47	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
8297	21268	34678	1.76	2.0E-47	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
9080	22034	35457	1.75	2.0E-47	AF071771.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
9845	22781	36235	0.76	2.0E-47	11526138	NT	Homo sapiens BTG family, member 3 (BTG3), mRNA
11800	23955	37478	2.31	2.0E-47	M76126.1	NT	Human tyrosine kinase receptor (ax) mRNA, complete cds
12358	28888	31415	2.12	2.0E-47	R42423.1	EST_HUMAN	y92408.x1 Scores infant brain 11B Homo sapiens cDNA clone IMAGE:29066 3' similar to contains OFR repetitive element;
1404	14437	27405	6.91	1.0E-47	A033429.1	EST_HUMAN	q959h03.x1 Scores, fetal lung, NBHL 19W Homo sapiens cDNA clone IMAGE:1931189 3'
3835	18875	28776	1.18	1.0E-47	BE280477.1	EST_HUMAN	601155321F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3138883 5'
3835	18875	28777	1.18	1.0E-47	BE280477.1	EST_HUMAN	601155321F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3138883 5'
5112	18122	30897	2.55	1.0E-47	AV013906.1	EST_HUMAN	RCS-ST0197-130400-017-02 ST0197 Homo sapiens cDNA
7244	19976	33276	6.6	1.0E-47	A080086.1	EST_HUMAN	at19600.x1 Bartsch acia HPLR86 Homo sapiens cDNA clone IMAGE:2355586 3' similar to gb:M22995
9220	22186		0.77	1.0E-47	AW664648.1	EST_HUMAN	RAS-RELATED PROTEIN RAP-1A (HUMAN);
10721	22843	37136	2.41	1.0E-47	L30115.1	NT	H84411.x1 Scores, NFL, T, GBC, S1 Homo sapiens cDNA clone IMAGE:2978972 3' similar to gb:M26526
1616	14648	27623	3.85	9.0E-48	AF223391.1	NT	KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN);
3569	18614	28536	0.7	9.0E-48	BF359947.1	EST_HUMAN	Papio leucodermis alcohol dehydrogenase class I (ADH) gene, 5' region
5763	18855	32035	0.84	9.0E-48	BE688196.1	EST_HUMAN	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
5763	18855	32036	0.84	9.0E-48	BE688196.1	EST_HUMAN	CM2-MT010100-310700-280-065 MT0100 Homo sapiens cDNA
						EST_HUMAN	601511714F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913106 5'
						EST_HUMAN	601511714F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913106 5'

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6220	19294	32528	0.6	9.0E-48	AI833188.1	EST_HUMAN	at57069.x1 Baristaed codon HPLR87 Homo sapiens cDNA clone IMAGE:2377889 3' similar to TR:O60844
6351	19420	32661	0.73	9.0E-48	AI123240.1	EST_HUMAN	O60844: HOLOLOG OF RAT ZYMOGEN GRANULE MEMBRANE PROTEIN. ;
11482	24385	37940	2.49	9.0E-48	BE393813.1	EST_HUMAN	AI123240: NT2R11 Homo sapiens cDNA clone NT2R11000978 5'
1255	14291		1.5	8.0E-48	4501900	NT	601310470F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3632083 5'
1256	14291		1.54	8.0E-48	4501900	NT	Homo sapiens aminocyclase 1 (ACY1), mRNA
3152	16209	29123	3.31	8.0E-48	AW768477.1	EST_HUMAN	Hk61b03.x1 NCI CGAP_Lym12 Homo sapiens cDNA clone IMAGE:3001133 3' similar to gb:X64707
3152	16209	29124	3.31	8.0E-48	AW768477.1	EST_HUMAN	BREAST BASIC CONSERVED PROTEIN 1 (HUMAN);
481	13564		1.54	7.0E-48	AB033035.1	NT	BREAST BASIC CONSERVED PROTEIN 1 (HUMAN);
492	13564		22.81	7.0E-48	AB033035.1	NT	Homo sapiens mRNA for KIAA1209 protein, partial cds
1466	14529	27601	1.04	7.0E-48	6912719	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
1643	14675	27648	4.9	7.0E-48	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
6707	19763	33042	24.74	7.0E-48	11416831	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
3612	19657	29575	1.2	6.0E-48	AI761111.1	EST_HUMAN	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
6176	19251	32484	1.12	6.0E-48	AB006955.1	NT	wilsh03.x1 NCI CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2398613 3'
6953	20177	33502	0.89	6.0E-48	11420695	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
7702	25687	34022	0.56	6.0E-48	AB046844.1	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
7702	25687	34023	0.56	6.0E-48	AB046844.1	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
9479	22443	35885	1.94	6.0E-48	AF028816.1	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
9899	22852	36311	1.76	6.0E-48	11427428	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
10047	22974	36441	3.3	6.0E-48	AA189080.1	EST_HUMAN	z049b08.x1 Stragene INT neuron (#937233) Homo sapiens cDNA clone IMAGE:632627 3' similar to contains Alu repetitive element;
3320	16313	29292	1.66	5.0E-48	4826891	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
8921	21987	35314	1.11	5.0E-48	BE064410.1	EST_HUMAN	RC4-BT0311-141189-011-H09 BT0311 Homo sapiens cDNA
11305	24255	37762	2.83	4.0E-48	AI620420.1	EST_HUMAN	lc47a02.x1 NCI CGAP_P728 Homo sapiens cDNA clone IMAGE:2254154 3'
1395	14419	27388	1.33	3.0E-48	AV690964.1	EST_HUMAN	AV690964 GKC Homo sapiens cDNA clone GKC096412 5'
1993	15014	28020	16.21	3.0E-48	4885170	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
1993	15014	28021	16.21	3.0E-48	4885170	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
3428	16477	29396	0.93	3.0E-48	AF17453.1	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
3647	16690	29606	0.75	3.0E-48	AV664531.1	EST_HUMAN	h14h12.x1 NCI CGAP_GU1 Homo sapiens cDNA clone IMAGE:267255 3' similar to SW:DCRB_HUMAN
4275	17304		0.9	3.0E-48	AA009541.1	EST_HUMAN	P95655: DOWN SYNDROME CRITICAL REGION PROTEIN B. ;
							z049b08.x1 Stragene INT neuron (#937233) Homo sapiens cDNA clone IMAGE:632627 3' similar to contains Alu repetitive element;

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF-SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5697	19081	32278	2.41	3.0E-48	BE084571.1	EST_HUMAN	MR4-BT0657-060-100-201-1010 BT0657 Homo sapiens cDNA
7215	20237	33571	1.06	3.0E-48	AF087913.1	NT	Human endogenous retrovirus HERV-FP-147D
8734	21702		4.11	3.0E-48	AA65930.1	EST_HUMAN	PTB5 repetitive element
11221	24174	37700	6.89	3.0E-48	BF514170.1	EST_HUMAN	UHF-BW1-ant-a-10Q-U1-nt1 CGAP Sub7 Homo sapiens cDNA clone IMAGE:308287 3'
5	13126	26025	2.4	2.0E-48	AA465007.1	EST_HUMAN	z88d03.1 Scores every tumor NBH0T Homo sapiens cDNA clone IMAGE:810052 5'
47	13167	26072	1.23	2.0E-48	AA631940.1	EST_HUMAN	Ym67 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR17-26
1223	14261		0.65	2.0E-48	H24278.1	EST_HUMAN	Ym640.1 Scores infant brain IN18 Homo sapiens cDNA clone IMAGE:52182 5' similar to SP-M8B_MOUSE P3803 MEMBRANE GLYCOPROTEIN
4562	17595	30477	0.92	2.0E-48	BE246065.1	EST_HUMAN	TCBAP-103842 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project TCB4 Homo sapiens cDNA clone TCBAP3842
5912	18598	32188	0.63	2.0E-48	AA613171.1	EST_HUMAN	nt18g01.s1 NCI CGAP Phet1 Homo sapiens cDNA clone IMAGE:1101072 3'
5912	18598	32189	0.63	2.0E-48	AA613171.1	EST_HUMAN	nt18g01.s1 NCI CGAP Phet1 Homo sapiens cDNA clone IMAGE:1101072 3'
7762	20715	34088	3.9	2.0E-48	AB040934.1	NT	Homo sapiens mRNA for KIAA1501 protein, partial cds
7762	20715	34087	3.9	2.0E-48	AB040934.1	NT	Homo sapiens mRNA for KIAA1501 protein, partial cds
7777	20730	34103	3.52	2.0E-48	11496238	NT	Homo sapiens v-rel avian reticuloendotheliosis viral oncogene homolog A (nuclear factor of kappa light polypeptide gene enhancer in B-cells 3 (p65) (REL)), mRNA
8593	21656	35089	1.37	2.0E-48	AV743451.1	EST_HUMAN	z88d03.1 Scores every tumor NBH0T Homo sapiens cDNA clone IMAGE:810052 5'
12318	13126	26025	3.8	2.0E-48	AA465007.1	EST_HUMAN	Homo sapiens cispaltin resistance-associated overexpressed protein (LOC51747), mRNA
58	13177	26089	3.37	1.0E-48	7708534	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-1, Alzheimer disease) (APP), mRNA
874	13930	26888	1.91	1.0E-48	4502168	NT	Homo sapiens EBNA-2 co-activator (100K) (p100), mRNA
1077	14122	27073	1.8	1.0E-48	7657430	NT	Homo sapiens EBNA-2 co-activator (100K) (p100), mRNA
1077	14122	27074	1.8	1.0E-48	7657430	NT	Homo sapiens EBNA-2 co-activator (100K) (p100), mRNA
1299	14335	27286	5.06	1.0E-48	5032032	NT	Homo sapiens RNA binding motif protein 6 (RBM6) mRNA
1933	14957	27654	14.5	1.0E-48	AL163302.2	NT	Homo sapiens chromosome 21 segment HS21C10102
3500	16547	29473	0.83	1.0E-48	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C0246
6420	19487	32796	1.17	1.0E-48	AI890077.1	EST_HUMAN	nt17c01.x1 NCI CGAP Co16 Homo sapiens cDNA clone IMAGE:2075904 3' similar to TR.O14588 O14588 SIMILARITY TO U73941
6420	19487	32737	1.17	1.0E-48	AI890077.1	EST_HUMAN	nt17c01.x1 NCI CGAP Co16 Homo sapiens cDNA clone IMAGE:2075904 3' similar to TR.O14588 O14588 SIMILARITY TO U73941
6648	19706		1.03	1.0E-48	Y18000.1	NT	Homo sapiens NF2 gene
6748	19802	33082	0.7	1.0E-48	AB028994.1	NT	Homo sapiens mRNA for KIAA1071 protein, partial cds
6748	19802	33083	0.7	1.0E-48	AB028994.1	NT	Homo sapiens mRNA for KIAA1071 protein, partial cds

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF-SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7471	20437	33794	3.15	1.0E-48	4755137	NT	Homo sapiens huntingtin (Huntington disease) (HD) mRNA
9183	22149	33576	0.49	1.0E-48	4756955	NT	Homo sapiens mitogen-activated protein kinase kinase kinase 13 (MAP3K13) mRNA
9183	22149	33577	0.49	1.0E-48	4756955	NT	Homo sapiens mitogen-activated protein kinase kinase kinase 13 (MAP3K13) mRNA
9588	22530	35890	1.19	1.0E-48	4502838	NT	Homo sapiens Cheddiak-Higashi syndrome 1 (CHS1) mRNA
9623	22687	36017	7.13	1.0E-48	AS30307.1	NT	Homo sapiens mRNA for KIAA1245 protein, partial cds
9623	22687	36017	7.13	1.0E-48	AS30307.1	NT	Homo sapiens mRNA for KIAA1245 protein, partial cds
9824	22808	36250	0.69	1.0E-48	BE186410.1	EST_HUMAN	Q3V8-H10513-060400-147-401 HT0513 Homo sapiens cDNA
9941	22868	36330	4.48	1.0E-48	BF304953.1	EST_HUMAN	Q1880066F1 NH1_MGC_17 Homo sapiens cDNA clone IMAGE:4122119 5'
10736	23658	37151	3.85	1.0E-48	11429808	NT	Homo sapiens B cell linker protein (SLP65) mRNA
10736	23658	37152	3.85	1.0E-48	11429808	NT	Homo sapiens B cell linker protein (SLP65) mRNA
12260	25893		1.93	1.0E-48	W28785.1	EST_HUMAN	15d8 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
6171	19246	32478	3	8.0E-49	10048417	NT	Mus musculus T-box 20 (Tbx20) mRNA
6171	19246	32478	3	8.0E-49	10048417	NT	Mus musculus T-box 20 (Tbx20) mRNA
7017	20143	33460	0.57	8.0E-49	AA642035.1	EST_HUMAN	ns16f03.r1 NCI_OGAP_GC81 Homo sapiens cDNA clone IMAGE:1184021 5'
9838	21006	35029	3.32	8.0E-49	U23850.1	NT	Human insulin 1,4,5 triphosphate receptor type 1 mRNA, partial cds
10348	23772	38748	2.1	8.0E-49	AB006881.1	NT	Homo sapiens gene for actin receptor type IIB, complete cds
11204	24168	37698	2.32	8.0E-49	AI623722.1	EST_HUMAN	ts38d12.x1 NCI_OGAP_UH4 Homo sapiens cDNA clone IMAGE:2230871 3' similar to contains Alu repetitive element/contains element PTR8 repetitive element
140	13468	26398	2.24	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
140	13468	26399	2.24	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
393	13468	26398	1.93	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
393	13468	26399	1.93	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
394	13468	26398	2.06	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
394	13468	26399	2.06	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
1225	14283	27220	2.95	7.0E-49	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
5535	18632	31571	1.57	7.0E-49	AI807191.1	EST_HUMAN	w25f04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356663 3' similar to TR:054923
5545	18642	31582	1.33	7.0E-49	AL120637.1	EST_HUMAN	DKFZp782C033.1 ;
5903	18632	31571	0.84	7.0E-49	AI807191.1	EST_HUMAN	DKFZp782C033.1_s1 782 (synonym: hms2) Homo sapiens cDNA clone DKFZp782C033 3'
							w25f04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356663 3' similar to TR:054923
							O54923 RSEC15.1 ;
108	13299	26227	88.86	6.0E-49	AW731740.1	EST_HUMAN	h45f05.x1 NH1_MGC_10 Homo sapiens cDNA clone IMAGE:290504 3' similar to gb-X17208.40S
4142	17173	30082	1.14	6.0E-49	AL162091.1	EST_HUMAN	RIBOSOMAL PROTEIN S4 (HUMAN); gb-X172082 Mouse LLrep3 protein mRNA from a repetitive element, complete (MOUSE);
6582	19842	32006	0.95	6.0E-49	AU140742.1	EST_HUMAN	DKFZp781A138.1_s1 781 (synonym: ham2) Homo sapiens cDNA clone DKFZp781A138 3'
							AU140742 PLACE4 Homo sapiens cDNA clone PLACE4000148 5'

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11609	24547	38107	2	6.0E-49	AW462218.1	EST_HUMAN	U1H-B13-alc-a05-Q-U1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086048 3'
11972	24850	39446	4.09	6.0E-49	AA369566.1	EST_HUMAN	EST177523 Pancreas tumor III Homo sapiens cDNA 5' end
11972	24850	39447	4.09	6.0E-49	AA369566.1	EST_HUMAN	EST177523 Pancreas tumor III Homo sapiens cDNA 5' end
12845	25723	28708	1.7	6.0E-49	AA707567.1	EST_HUMAN	J28008.st Soares_fetal_liver_spleen_INEL.S_S1 Homo sapiens cDNA clone IMAGE:451694 3'
713	13775	26708	8.21	5.0E-49	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
713	13775	26709	8.21	5.0E-49	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1809	14837	27828	3.44	5.0E-49	AA172121.1	EST_HUMAN	z526d07.t1 Striatogene neuroepithelium (8937/231) Homo sapiens cDNA clone IMAGE:610860 5' similar to TR:G233228 G233228 RTVL-H PROTEIN; contains LTR13 LTR7 LTR7 repetitive element;
2760	15752	28772	9.75	5.0E-49	U17714.1	NT	Homo sapiens putative tumor suppressor ST13 (ST13) mRNA, complete cds
3296	16340	28259	6.07	5.0E-49	11493558	NT	Homo sapiens similar to ribosomal protein S27 (metalloproteinase 1) (H. sapiens) (LOC633362), mRNA
528	19397	28514	25.9	4.0E-49	AW198933.1	EST_HUMAN	408d01.x1 NCI_CGAP_U14 Homo sapiens cDNA clone IMAGE:2875693 3' similar to WP:B0350.2B
7457	20423	33778	1.06	4.0E-49	Z26834.2	NT	CE06703
7457	20423	33779	1.06	4.0E-49	Z26834.2	NT	Homo sapiens mRNA for ankryrin B (440 kDa)
7487	20452	33811	0.66	4.0E-49	11525737	NT	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetyl-galactosaminyltransferase 8 (GalNAc-T8) (GALNT8), mRNA
7487	20452	33812	0.66	4.0E-49	11525737	NT	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetyl-galactosaminyltransferase 8 (GalNAc-T8) (GALNT8), mRNA
8109	21046	34446	0.71	4.0E-49	7962209	NT	Homo sapiens KIAA0823 gene product (KIAA0823), mRNA
9216	22182	35514	0.53	4.0E-49	11425374	NT	Homo sapiens caprine III (CPNE3), mRNA
9216	22182	35515	0.53	4.0E-49	11425374	NT	Homo sapiens caprine III (CPNE3), mRNA
12508	25539		8.71	4.0E-49	AA210796.1	EST_HUMAN	Z39005.t1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:692977 5'
12594	25297		3.19	4.0E-49	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
562	13632	26549	1.27	3.0E-49	X68968.1	NT	H sapiens mRNA for acetyl-CoA carboxylase
2556	15683		1.93	3.0E-49	AA016131.1	EST_HUMAN	z331cd05.t1 Soares retina N2b-4HR Homo sapiens cDNA clone IMAGE:390594 5' similar to contains L1 L3 L1 repetitive element;
5019	18033	30918	2.11	3.0E-49	U46999.1	NT	Human type IV collagen (COL4A3) gene, exon 40
7950	20910	33976	10.82	3.0E-49	H39479.1	EST_HUMAN	EST128e12 WATMT Homo sapiens cDNA clone z5612
11933	24570	38134	1.54	3.0E-49	AA337561.1	EST_HUMAN	EST142572 Endometrial tumor Homo sapiens cDNA 5' end
862	13728		3.89	2.0E-49	BE165960.1	EST_HUMAN	MRS-HT0487150200-113-q01 HT0487 Homo sapiens cDNA
3236	16291	28213	1.5	2.0E-49	N26446.1	EST_HUMAN	J233d06.t1 Soares melanocyte 2N6HM Homo sapiens cDNA clone IMAGE:262371 5'

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3583	16628	29547	0.78	2.0E-49	AF025894.1	NT	Homo sapiens RNA binding protein 11 (RBM11) gene, complete cds
6900	19952	33249	1.14	2.0E-49	AV717938.1	EST_HUMAN	AV717938 DCS Homo sapiens cDNA clone DCSBALB01 5'
8436	21405		1.62	2.0E-49	M86033.1	EST_HUMAN	EST026568 Fetal brain, Striatum (cat9636205) Homo sapiens cDNA clone HFBCY50
12603	25821		2.57	2.0E-49	AF163864.1	NT	Homo sapiens SNCA isoform (SNCA) gene, complete cds, alternatively spliced
900	13955		9.35	1.0E-49	BF035327.1	EST_HUMAN	60744863 F1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:362086 5'
1557	14589	27560	1.27	1.0E-49	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
1818	14845	27837	3.33	1.0E-49	BE255216.1	EST_HUMAN	601115769F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3356273 5'
5433	18535	31444	5.72	1.0E-49	BF131007.1	EST_HUMAN	601820059F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:405202 5'
8196	19270	32505	0.87	1.0E-49	H18261.1	EST_HUMAN	Y48104.1 Scores adult brain N265H165Y Homo sapiens cDNA clone IMAGE:171703 5' similar to SP-GBG1_HUMAN Q08447 GUANINE NUCLEOTIDE-BINDING PROTEIN G(T) GAMMA-1 SUBUNIT ;
6202	19276	32510	1	1.0E-49	AW964840.1	EST_HUMAN	EST378713 IMAGE resequences, MACH Homo sapiens cDNA
7427	20394	33744	0.59	1.0E-49	AV703000.1	EST_HUMAN	AV703000 ADB Homo sapiens cDNA clone ADBGVD11 5'
7427	20394	33745	0.59	1.0E-49	AV703000.1	EST_HUMAN	AV703000 ADB Homo sapiens cDNA clone ADBGVD11 5'
7433	20400	33753	3.3	1.0E-49	BE398110.1	EST_HUMAN	60129030F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620863 5'
7433	20400	33754	3.3	1.0E-49	BE398110.1	EST_HUMAN	60129030F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620863 5'
7520	20485	33846	2.2	1.0E-49	N25894.1	EST_HUMAN	yw78q12.s1 Scores placenta, placenta, placenta, 2NBHP8106W Homo sapiens cDNA clone IMAGE:258406 3' similar to gb-X65873 KINESIN HEAVY CHAIN (HUMAN);
7520	20485	33847	2.2	1.0E-49	N25894.1	EST_HUMAN	yw78q12.s1 Scores placenta, placenta, placenta, 2NBHP8106W Homo sapiens cDNA clone IMAGE:258406 3' similar to gb-X65873 KINESIN HEAVY CHAIN (HUMAN);
8414	21383	34790	0.69	1.0E-49	11327580	NT	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
8414	21383	34791	0.69	1.0E-49	11327580	NT	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
9023	21889		0.78	1.0E-49	9954184	NT	Homo sapiens RNA binding motif protein 7 (LOC61120), mRNA
9344	22009	35734	1.14	1.0E-49	BE40540.1	EST_HUMAN	Homo sapiens RNA binding motif protein 7 (LOC61120), mRNA
10485	23407	36903	1.22	1.0E-49	AL043126.2	EST_HUMAN	DKFZp434D2423.J1 434 (synonym: hncs3) Homo sapiens cDNA clone IMAGE:3633388 5'
11399	24344	37877	1.99	1.0E-49	AB020335.1	NT	DKFZp434D2423.J1 434 (synonym: hncs3) Homo sapiens cDNA clone IMAGE:3633388 5'
11640	24577	38143	3.12	1.0E-49	11427366	NT	Homo sapiens Pancras-specific TSA305 mRNA, complete cds
12147	25007		1.7	1.0E-49	BE15543.1	EST_HUMAN	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 1 (BIG1), mRNA
12502	25241		2.78	1.0E-49	11418322	NT	MRO-HT0407-010200-006-102 HT0407 Homo sapiens cDNA
8544	25997		1.06	9.0E-50	BE226758.1	EST_HUMAN	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (OELSR1), mRNA
1771	13272	26716	3.9	8.0E-50	AL163202.2	NT	601176250F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531588 5'
720	13762	26717	2.14	8.0E-50	X65097.2	NT	Homo sapiens chikona 21 segment HS21C002
720	13762	26717	2.14	8.0E-50	X65097.2	NT	Homo sapiens mRNA for VIP receptor 2
1778	14807	27793	4	8.0E-50	4501850	NT	Homo sapiens actinin, alpha 1 (ACTN1) mRNA
2710	15704	28720	2.18	8.0E-50	4826658	NT	Homo sapiens capping protein (actin filament) muscle Z-line, beta (CAPZB), mRNA

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
621	13695	26904	0.65	7.0E-50	BE085981.1	EST_HUMAN	QV0-B.T0703-280400-211-e08 B.T0703 Homo sapiens cDNA
6952	20176	33500	1.21	7.0E-50	BF091922.1	EST_HUMAN	RC6-TN0073-150900-011-A12 TN0073 Homo sapiens cDNA
6952	20176	33501	1.21	7.0E-50	BF091922.1	EST_HUMAN	RC6-TN0073-150900-011-A12 TN0073 Homo sapiens cDNA
7526	20490	33852	0.62	7.0E-50	AA627622.1	EST_HUMAN	nc9812.s1 NCL CGAP Cag Homo sapiens cDNA clone IMAGE:1149206 3' similar to gb:X69391.60S
11108	24068	37560	28.05	7.0E-50	A872137.1	EST_HUMAN	RIBOSOMAL PROTEIN L6 (HUMAN); vnt5511.1.x1 NCL CGAP U2 Homo sapiens cDNA clone IMAGE:2439908 3'
8558	21524		6.69	6.0E-50	BE044076.1	EST_HUMAN	nc3804.s1 NCL CGAP U2 Homo sapiens cDNA clone IMAGE:2439908 3'
11166	24124	37652	7.96	6.0E-50	AA312079.1	EST_HUMAN	MER29 repetitive element;
11166	24124	37653	7.96	6.0E-50	AA312079.1	EST_HUMAN	EST182775 Jurkat T-cells VI Homo sapiens cDNA 5' end
1808	14836	27826	1.18	5.0E-50	BF332938.1	EST_HUMAN	EST182775 Jurkat T-cells VI Homo sapiens cDNA 5' end
1808	14836	27827	1.18	5.0E-50	BF332938.1	EST_HUMAN	QV0-B.T0792-300500-398-b05 B.T0792 Homo sapiens cDNA
9448	22412		5.65	5.0E-50	AA557683.1	EST_HUMAN	QV0-B.T0792-300500-398-b05 B.T0792 Homo sapiens cDNA
918	13972		1.45	4.0E-50	AA601143.1	EST_HUMAN	nc5460.s1 NCL CGAP SS1 Homo sapiens cDNA clone IMAGE:1104520 3' similar to gb:X53741_rna1
6497	19551	32813	0.54	4.0E-50	11440693	NT	FIBULIN-1, ISOFORM A PRECURSOR (HUMAN); Human sapiens glycyl-L-tyrosine synthetase (GARS), mRNA
7445	20411	33763	0.93	4.0E-50	BE087536.1	EST_HUMAN	QV1-B.T0681-280500-127-f12 B.T0681 Homo sapiens cDNA
1955	14978		2.86	3.0E-50	M18048.1	NT	Human endogenous retrovirus RTVL-H2
2525	15528	28549	1.11	3.0E-50	BE259196.1	EST_HUMAN	6011087771 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350309 5'
3310	16363	29283	0.86	3.0E-50	AA746142.1	EST_HUMAN	cd03106.s1 NCL CGAP K16 Homo sapiens cDNA clone IMAGE:1322627 3'
8834	19887	33180	0.8	3.0E-50	11419317	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type 12 (PTPN12), mRNA
8834	19887	33181	0.8	3.0E-50	11419317	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type 12 (PTPN12), mRNA
6929	20153	33472	1.56	3.0E-50	11421514	NT	Homo sapiens similar to sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (sempathrin) 3A (H. sapiens) (LOC53232), mRNA
7906	20849	34234	4.3	3.0E-50	AF23436.2	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP1a mRNA, complete cds
7906	20849	34235	4.3	3.0E-50	AF23436.2	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP1a mRNA, complete cds
8929	21895	35323	0.61	3.0E-50	6901598	NT	Homo sapiens ankyrin-like with transmembrane domains 1 (ANKTM1), mRNA
10177	23102	36592	1.1	3.0E-50	AB046818.1	NT	Homo sapiens L-complex 10 (a murine top homolog) (TCP10), mRNA
10186	23111	36595	0.96	3.0E-50	11416514	NT	Homo sapiens L-complex 10 (a murine top homolog) (TCP10), mRNA
10865	23805	37309	0.74	3.0E-50	AB002297.1	NT	Human mRNA for KIAA0299 gene, partial cds
11438	24381	37920	1.99	3.0E-50	11436955	NT	Human sapiens G12-associated binder 2 (KIAA0571), mRNA

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Table 4
Antibodies Expressed In Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11782	23947	37468	8.4	3.0E-50	AJ245621.1	NT	Homo sapiens CTL2 gene
1778	13837		6.8	2.0E-50	AF055066.1	NT	Homo sapiens MHC class 1 region
1081	14125	27078	6.73	2.0E-50	455752	NT	Homo sapiens midline 1 (Oplis/BBS syndrome) (MID1) mRNA
1437	14470	27448	0.95	2.0E-50	AF136303.1	NT	Homo sapiens desmin D mRNA, complete cds, alternatively spliced
3300	16593	29272	0.83	2.0E-50	AF111168.2	NT	Homo sapiens serine palmitoyl transferase, subunit II gene, complete cds, and unknown genes
4289	17318	30197	0.75	2.0E-50	D86424.1	NT	Mus musculus mRNA for high-sulfur keratin protein, partial cds
7051	20073	33380	0.51	2.0E-50	AJ124055.1	EST_HUMAN	AJ124055 NT25M2 Homo sapiens cDNA clone NT25RM2001809 5'
8659	21027	35047	1.09	2.0E-50	AB038162.1	NT	Homo sapiens TFF gene cluster for trefoil factor, complete cds
8658	21027	35048	1.09	2.0E-50	AB038162.1	NT	Homo sapiens TFF gene cluster for trefoil factor, complete cds
8766	21766	35188	6.78	2.0E-50	X00956.1	NT	Human HALPH444 gene for alpha-tubulin, exons 1-3
8769	21766	35190	6.78	2.0E-50	X00956.1	NT	Human HALPH444 gene for alpha-tubulin, exons 1-3
10244	23169	36657	1.43	2.0E-50	9910283	NT	Mus musculus keratin complex 2, gene 5g (K12-5g), mRNA
10244	23169	36658	1.43	2.0E-50	9910283	NT	Mus musculus keratin complex 2, gene 5g (K12-5g), mRNA
11871	24849		1.52	2.0E-50	AF236861.1	NT	Macaca mulatta cyclophilin A mRNA, complete cds
462	13355	26461	2.26	1.0E-50	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
2373	15381		9.27	1.0E-50	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region, segment 1/2
7970	20089		0.55	1.0E-50	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region, segment 1/2
10553	23475	36970	0.97	1.0E-50	D11078.1	NT	Homo sapiens RGH2 gene, retrovirus-like element
6095	19174	32390	1.01	9.0E-61	AW511225.1	EST_HUMAN	nc14602.x1 Scores_NFL_T_GBC_S31 Homo sapiens cDNA clone IMAGE:2812378 3' similar to TR:O56936
6350	19419	32660	0.71	9.0E-61	AJ744837.1	EST_HUMAN	O56936 CAMP-REGULATED GUANINE NUCLEOTIDE EXCHANGE FACTOR II.;
							n967h03.s1 NCL_CGAP_GCB81 Homo sapiens cDNA clone IMAGE:283381 3'
							ai23g04.x3 Strategene lung (9837210) Homo sapiens cDNA clone IMAGE:841886 3' similar to
							SW:PSM1_HUMAN Q04609 PROSTATE-SPECIFIC MEMBRANE ANTIGEN;
							Z51C7059.r1 Scores_pregnat_uterus_NBHP Homo sapiens cDNA clone IMAGE:486352 5'
9020	21866	35407	0.55	9.0E-61	AJ791454.1	EST_HUMAN	ai23g04.x5 Strategene lung (9837210) Homo sapiens cDNA clone IMAGE:841886 3' similar to
9678	22632	36088	1.2	9.0E-61	AA045738.1	EST_HUMAN	SW:PSM1_HUMAN Q04609 PROSTATE-SPECIFIC MEMBRANE ANTIGEN;
9858	22794	36246	0.52	9.0E-61	AJ791454.1	EST_HUMAN	ai23g04.x3 Strategene lung (9837210) Homo sapiens cDNA clone IMAGE:841886 3' similar to
							SW:PSM1_HUMAN Q04609 PROSTATE-SPECIFIC MEMBRANE ANTIGEN;
9858	22794	36246	0.52	9.0E-61	AJ791454.1	EST_HUMAN	SW:PSM1_HUMAN Q04609 PROSTATE-SPECIFIC MEMBRANE ANTIGEN;
11804	23959	37483	1.5	9.0E-61	H880778.1	EST_HUMAN	yw24p05.r1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:253210 5'
11804	23959	37484	1.5	9.0E-61	H880778.1	EST_HUMAN	yw24g06.r1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:253210 5'
							np88g06.s1 NCL_CGAP_Lut1 Homo sapiens cDNA clone IMAGE:1142440 3' similar to gp-X12871_mel
							HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HUMAN);
4589	17520	30513	6.61	8.0E-61	AA610842.1	EST_HUMAN	
7914	20957	34245	2.04	8.0E-61	AA1139587	NT	Homo sapiens PDZ-73 protein (PDZ-73/NTY-30-38), mRNA
9819	22668		0.96	4.0E-61	AJ134560.1	EST_HUMAN	AJ134550 PLACEAT Homo sapiens cDNA clone PLACE1008887 5'

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Meat Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3295	16348	29288	1.68	7.0E-51	AW989219.1	EST_HUMAN	QVANT0028-200400-180-065 NT0028 Homo sapiens cDNA
3374	16424	29349	0.72	7.0E-51	AV274720.1	EST_HUMAN	xt34a03.x1 NCI CGAP K111 Homo sapiens cDNA clone IMAGE:2695664 3' similar to TR:082340
4196	17227	30116	1.4	7.0E-51	AL079628.1	EST_HUMAN	QKZ2434B2229_r1_434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434B2229 5'
4196	17227	30117	1.4	7.0E-51	AL079628.1	EST_HUMAN	DKFZp434B2229_r1_434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434B2228 5'
4376	17406	30286	1.54	7.0E-51	AW295603.1	EST_HUMAN	U1H-BWO-dlp-5-05-Q1.at NCI CGAP SubB Homo sapiens cDNA clone IMAGE:2728817 3'
11593	24870	38466	2.13	7.0E-51	AF161449.1	NT	Homo sapiens HSPC331 mRNA, partial cds
1530	14563	27534	0.91	6.0E-51	6678763	NT	Homo sapiens putative DNA binding protein (M96), mRNA
1996	15017	28024	5.54	6.0E-51	7657266	NT	Homo sapiens KIAA0929 protein Msz2 interacting nuclear target (MINT) homolog (KIAA0929), mRNA
3487	16533	29458	17.23	6.0E-51	7657266	NT	Homo sapiens KIAA0929 protein Msz2 interacting nuclear target (MINT) homolog (KIAA0929), mRNA
4336	17365	30247	0.69	6.0E-51	9910553	NT	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
4336	17365	30248	0.69	6.0E-51	9910553	NT	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
6105	19184	32403	2.8	6.0E-51	X01786.1	NT	Human haptoglobin related (Hpr) gene exon 3
6116	19194	32417	8.29	6.0E-51	AF070083.1	NT	Homo sapiens mitogen-activated protein kinase kinase 1 (MKK4) gene, exon 4
6116	19194	32418	8.29	6.0E-51	AF070083.1	NT	Homo sapiens mitogen-activated protein kinase kinase 1 (MKK4) gene, exon 4
6925	20149	33469	1.13	6.0E-51	4506736	NT	Homo sapiens ribosomal protein S6 kinase, 70kD, polypeptide 1 (RPS6KB1) mRNA
7075	20088	33408	1.03	6.0E-51	11416751	NT	Homo sapiens non-kinase Cdc42 effector protein SPEC2 (LOC56980), mRNA
7157	19389	31233	2.29	6.0E-51	11429663	NT	Homo sapiens cerebral cell adhesion molecule (LOC51148), mRNA
9492	22456	35995	0.62	6.0E-51	11428525	NT	Homo sapiens hypothetical protein FLJ11042 (FLJ11042), mRNA
9492	22456	35995	0.62	6.0E-51	11428525	NT	Homo sapiens hypothetical protein FLJ11042 (FLJ11042), mRNA
10042	22069	36436	2.04	6.0E-51	7991538	NT	Homo sapiens B9 protein (B9), mRNA
10120	23046	36525	1.14	6.0E-51	U60093.1	NT	Human ankryrin (ANK1) gene, exon 2
11955	24523	38078	1.55	6.0E-51	11526289	NT	Homo sapiens interleukin 17 receptor (IL17R), mRNA
792	13851	26798	8.57	5.0E-51	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
804	13862	26812	1.9	5.0E-51	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
893	16856	26998	1.23	5.0E-51	AL133204.1	NT	Novel human gene mapping to chromosome X
1612	14544	27620	1.02	5.0E-51	5031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
2586	16500	28619	7.72	5.0E-51	AJ007558.1	NT	Homo sapiens mRNA for nucleoporin 155
3965	17005	29919	1.85	5.0E-51	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
3965	17005	29920	1.85	5.0E-51	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
11910	24548	38108	4.07	5.0E-51	5503136	NT	Homo sapiens RNA binding motif protein 3 (RBM3), mRNA

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
135	13240	26171	1.53	3.0E-51	AI687348.1	EST_HUMAN	161093.x1 NCL CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2224720 3' similar to gb:M36326 KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN).
1180	14221	27177	3.31	3.0E-51	AI587348.1	EST_HUMAN	161068.x1 NCL CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2224720 3' similar to gb:M36326 KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN).
1940	14964	27861	1.09	3.0E-51	AA211266.1	EST_HUMAN	z087601.31 Striatagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:849008 3'
4354	17361	30263	2.23	3.0E-51	AL159142.1	NT	Novel human gene mapping to chromosome 22
7831	20779	34157	1.2	3.0E-51	R15914.1	EST_HUMAN	y447c08.r1 Soares infant brain 1NB Homo sapiens cDNA clone IMAGE:59233 5' similar to gb:M14123_cdd4 RETROVIRUS-RELATED POLYPROTEIN (HUMAN); contains LTR6 repetitive element ;
9191	22157		4.32	3.0E-51	M28053.1	NT	Human hRNIP C2 protein mRNA
9423	26008		0.46	3.0E-51	AW583777.1	EST_HUMAN	160403.y1 Human Pancreatic islets Homo sapiens cDNA 5'
12810	25435		1.36	3.0E-51	AF003528.1	NT	Homo sapiens X-linked arylidolitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
366	13452	26380	1.19	2.0E-51	4507708	NT	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A) mRNA
689	13752	26878	0.66	2.0E-51	BE391063.1	EST_HUMAN	601285634F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607463 5'
689	13762	26879	0.66	2.0E-51	BE391063.1	EST_HUMAN	601285634F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607463 5'
1697	14727	27710	4.89	2.0E-51	AA233352.1	EST_HUMAN	z30005.r1 Striatagene NT2 neuronal precursor 937230 Homo sapiens cDNA clone IMAGE:604880 5' similar to TR:G233228 G233228 RTU-H PROTEIN ; contains LTR7.13 LTR7 repetitive element ;
3745	16787	26869	2.46	2.0E-51	AI492415.1	EST_HUMAN	127703.x1 NCL CGAP_Kd11 Homo sapiens cDNA clone IMAGE:213732 3'
4521	17546	30433	0.69	2.0E-51	AW137826.1	EST_HUMAN	U1-H-B1-1-adj4-02-01-1 NCL CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2716851 3'
5513	18613	31545	0.57	2.0E-51	AI732851.1	EST_HUMAN	d33409.x5 NCL CGAP_KH5 Homo sapiens cDNA clone IMAGE:1325609 3' similar to SW:NM1_MOUSE P35436 GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR ;
5513	18613	31546	0.57	2.0E-51	AI732851.1	EST_HUMAN	d33409.x5 NCL CGAP_KH5 Homo sapiens cDNA clone IMAGE:1325609 3' similar to SW:NM1_MOUSE P35436 GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR ;
6131	18203	32433	4.17	2.0E-51	BE782015.1	EST_HUMAN	60170446F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3873563 5'
7531	20494		0.88	2.0E-51	AF216827.1	NT	Homo sapiens diacylglycerol kinase Iota (DGK) gene, exon 23
7690	20648	34012	0.91	2.0E-51	7662349	NT	Homo sapiens cell recognition molecule Caspr2 (KIAA0868), mRNA
9046	22012	35434	1.54	2.0E-51	BE901994.1	EST_HUMAN	601676787F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3959613 5'
9046	22012	35435	1.54	2.0E-51	BE901994.1	EST_HUMAN	601676787F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3959613 5'
9389	22354	35785	0.97	2.0E-51	11037064	NT	Homo sapiens disrupted in schizophrenia 1 (DISC1), mRNA
9870	22823	39278	1.35	2.0E-51	AI917078.1	EST_HUMAN	167407.x1 NCL CGAP_GC8 Homo sapiens cDNA clone IMAGE:2326880 3' similar to SW:TRKC_HUMAN
9862	22898	30350	5.78	2.0E-51	BE165960.1	EST_HUMAN	Q16288 NT-3 GROWTH FACTOR RECEPTOR PRECURSOR ; MR3-IT0497-150200-113-g01 HT0487 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top Hit) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8977	22904	36388	0.53	2.0E-51	AB007926.1	NT	Homo sapiens mRNA for KIAA0457 protein, partial cds
10789	23720	37223	1.54	2.0E-51	AV682474.1	EST_HUMAN	AV682474 GK8 Homo sapiens cDNA clone IMAGE:1325609 3' similar to SW:NM1_1_MOUSE
10838	23768	37258	1.14	2.0E-51	AA378559.1	EST_HUMAN	EST191286 Synovial sarcoma Homo sapiens cDNA 5' end
11655	18613	31545	7.03	2.0E-51	A1732851.1	EST_HUMAN	P36436 GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR ;
11655	18613	31546	7.03	2.0E-51	A1732851.1	EST_HUMAN	db3409.v6 NCI CGAP_Kid6 Homo sapiens cDNA clone IMAGE:1325609 3' similar to SW:NM1_1_MOUSE
12122	24891	38592	2.3	2.0E-51	AA011686.1	EST_HUMAN	P36436 GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR ;
12803	25430	31740	2	2.0E-51	11419159	NT	db3409.v6 NCI CGAP_Kid6 Homo sapiens cDNA clone IMAGE:1325609 3' similar to SW:NM1_1_MOUSE
114	13225	26149	8.48	1.0E-51	4503328	NT	z103301.1 Soares_fetal_liver_spleen_INFLS S1 Homo sapiens cDNA clone IMAGE:42672 5'
1491	14524	30352	33.7	1.0E-51	AV742248.1	EST_HUMAN	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (t(11q23) (Drosophila) homolog), translocated to, 4 (MLL1), mRNA
4437	17463	30352	0.69	1.0E-51	4759071	NT	Homo sapiens eukaryotic translation initiation factor 4A, isoform 1 (EIF4A1) mRNA
5463	18565	31476	3.94	1.0E-51	T118862.1	EST_HUMAN	AV742248 CB Homo sapiens cDNA clone CBFBCC12 5'
7811	20854	34242	0.98	1.0E-51	A1572532.1	EST_HUMAN	Homo sapiens small inducible cytokine subfamily A (Oxy-Oxy), member 15 (SCYA15) mRNA
8235	21204	34609	0.79	1.0E-51	BF434359.1	EST_HUMAN	b12058 Testis 1 Homo sapiens cDNA clone b12058
12073	28012		1.67	1.0E-51	AV760590.1	EST_HUMAN	7c68602.x1 NCI CGAP_Ov18 Homo sapiens cDNA clone IMAGE:2089108 3'
12899	25293		5.29	9.0E-52	AA77621.1	EST_HUMAN	7c68602.x1 NCI CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3644091 3' similar to TR:P87802 P87892
153	13256	26184	9.3	8.0E-52	AA77621.1	EST_HUMAN	PROTEASE ;
1495	14528	27500	1.77	8.0E-52	X94900.1	NT	z156407.s1 Soares_fetal_liver_spleen_INFLS S1 Homo sapiens cDNA clone IMAGE:448500 3' similar to contains THR.L3 THR repetitive element ;
1692	14694	27669	2.98	8.0E-52	11968028	NT	7c68602.x1 NCI CGAP_Ov18 Homo sapiens cDNA clone IMAGE:1241138 3' similar to contains THR.L3 THR repetitive element ;
1692	14694	27670	2.98	8.0E-52	11968028	NT	H sapiens mRNA for laminin-5, alpha3b chain
4019	14694	27669	6.44	8.0E-52	11968028	NT	Homo sapiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA
4019	14694	27670	6.44	8.0E-52	11968028	NT	Homo sapiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA
7760	20713	34082	0.69	8.0E-52	11416585	NT	Homo sapiens transforming growth factor, beta-induced, 88kD (TGFB1), mRNA
7760	20713	34083	0.69	8.0E-52	11416585	NT	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFB1), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9307	22332	35762	1.55	7.0E-52	W56471.1	EST_HUMAN	zc59a08.1f Scores: parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:326578 5' similar to contains Alu repetitive element;
1191	14231		0.65	6.0E-52	BE072409.1	EST_HUMAN	QV3-BT10537-271.295-049-407 BT0537 Homo sapiens cDNA
1703	14733	27715	3.37	6.0E-52	AF109907.1	NT	Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds, and S171 gene, partial cds
5516	18906	32089	1.06	6.0E-52	AI208794.1	EST_HUMAN	g944104.x1 Scores_ests_NHT Homo sapiens cDNA clone IMAGE:1838047 3'
11543	24484	38037	1.83	6.0E-52	BE048172.1	EST_HUMAN	tz4804.y1 NCL CGAP_Bms2 Homo sapiens cDNA clone IMAGE:2291671 5' similar to SW:PGBM_MOUSE Q05763 BASEMENT MEMBRANE-SPECIFIC HEPARAN SULFATE
4460	17465	30393	1.6	5.0E-52	Z78998.1	NT	PROTEOGLYCAN CORE PROTEIN PRECURSOR ;
9747	22898	36144	0.47	5.0E-52	11437365	NT	H.sapiens flow-sorted chromosome 6 HindIII fragment, SC6pa18H7
1670	14702	27577	1.25	4.0E-52	AF257318.1	NT	Homo sapiens ESHD region gene 1 (FRG1), mRNA
1803	14631	27818	1.15	4.0E-52	4759843	NT	Homo sapiens SH3-containing protein SH3GLB1 mRNA, complete cds
4769	17789	30982	1	4.0E-52	AI768814.1	EST_HUMAN	Homo sapiens nucleoprotein 155kD (NUP155) mRNA
5359	18464	31334	1.41	4.0E-52	4506132	NT	wl89p02.x1 NCL CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2400459 3'
5359	18464	31335	1.41	4.0E-52	4506132	NT	Homo sapiens phosphoribosyl pyrophosphate synthetase-associated protein 2 (PRPSAP2) mRNA
7843	20885	34276	0.56	4.0E-52	11625731	NT	Homo sapiens RAD51-interacting protein (PIRG1), mRNA
8373	21342	34753	2.33	4.0E-52	BE622032.1	EST_HUMAN	Homo sapiens phosphoribosyl pyrophosphate synthetase-associated protein 2 (PRPSAP2) mRNA
8878	21846	35268	6.18	4.0E-52	11417035	NT	Homo sapiens hyaluronidase 4 (HSD17B4), mRNA
12426	25164		3.05	4.0E-52	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
12906	25488		4.73	4.0E-52	AB002059.1	NT	Homo sapiens DNA for Human P2X4, complete cds
4119	17152		11.15	3.0E-52	11437042	NT	Homo sapiens hypothetical protein FLJ10875 (FLJ10875), mRNA
504	13634	26550	1.97	2.0E-52	M10978.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
564	13634	26551	1.97	2.0E-52	M10978.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
2030	15049	28064	1.43	2.0E-52	AB033075.1	NT	Homo sapiens mRNA for KIAA1249 protein, partial cds
2507	15510	28537	1.95	2.0E-52	BE207575.1	EST_HUMAN	bb5607.y1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3030421 5' similar to gb-X16480 M.musculus mRNA for Zfp-1 zinc finger protein (MOUSE);
2748	15739		10.45	2.0E-52	BF677892.1	EST_HUMAN	60204710.F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4248891 5'
5013	18027	30912	3.26	2.0E-52	AL137188.3	NT	Novel human gene mapping to chromosome 20, similar to membrane transporters
5049	18091	30939	0.98	2.0E-52	AI11802.1	EST_HUMAN	ga5690.s1 Scores_NHMFU_S1 Homo sapiens cDNA clone IMAGE:1690784 3'
5048	18091	30940	0.98	2.0E-52	AI11802.1	EST_HUMAN	ga5690.s1 Scores_NHMFU_S1 Homo sapiens cDNA clone IMAGE:1690784 3'
5788	18880	32062	3.71	2.0E-52	AY848041.1	EST_HUMAN	IL3-CT0214-231295-053-E12 CT0214 Homo sapiens cDNA
6503	19567	32819	1.7	2.0E-52	11141868	NT	Homo sapiens Interleukin 21 receptor (IL21R), mRNA
6872	19525	33221	1.04	2.0E-52	AB029004.1	NT	Homo sapiens mRNA for KIAA1051 protein, partial cds

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7120	20105	33416	0.73	2.0E-52	AI792146.1	EST_HUMAN	os45d12.y5 NOI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:160831.1 5'
8121	21058	34455	0.52	2.0E-52	5032156	NT	Homo sapiens transducin (beta)-like 1 (TBL1) mRNA
8121	21058	34456	0.52	2.0E-52	5032156	NT	Homo sapiens transducin (beta)-like 1 (TBL1) mRNA
9000	21086		11.69	2.0E-52	AF147860.1	NT	Mus musculus beta-tubulin mRNA, complete cds
9288	22254	35684	0.87	2.0E-52	AA779795.1	EST_HUMAN	2745905.s1 Scores_fetal_liver_spleen_NFLS.S1 Homo sapiens cDNA clone IMAGE:453272.3'
9834	22683		1.05	2.0E-52	4758768	NT	Homo sapiens NADH dehydrogenase (ubiquinone) Fe-S protein 5 (18KD) (NADH-coenzyme Q reductase) (NDUFS5) mRNA
10474	23396	36893	6.19	2.0E-52	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
10474	23396	36894	6.19	2.0E-52	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
11538	24478	38029	3.09	2.0E-52	AI831482.1	EST_HUMAN	wf49cd4.x1 NOI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2406150.3' similar to contains THR.b2 THR repetitive element;
11538	24479	38030	3.09	2.0E-52	AI831482.1	EST_HUMAN	wf49cd4.x1 NOI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2406150.3' similar to contains THR.b2 THR repetitive element;
11551	24492	38048	2.73	2.0E-52	AV715377.1	EST_HUMAN	AV715377 DC8 Homo sapiens cDNA clone DC8A1E03.5'
11680	24646		12.53	2.0E-52	W70280.1	EST_HUMAN	244951.2.1 Scores_fetal_heart_NBHH19W Homo sapiens cDNA clone IMAGE:344038.5'
11830	24818		2.73	2.0E-52	11477960	NT	Homo sapiens LIM domain kinase 2 (LMK2), mRNA
12231	25982	31300	18.5	2.0E-52	AW236287.1	EST_HUMAN	xt72a07.x1 NOI_CGAP_CVLT1 Homo sapiens cDNA clone IMAGE:2700036.3' similar to contains Alu repetitive element; contains element LTR2 repetitive element;
12633	25319		7.5	2.0E-52	AI808985.1	EST_HUMAN	wf87cd5.x1 Scores_NFL.T.GBC.S1 Homo sapiens cDNA clone IMAGE:2380640.3' similar to TR.Q16859
534	13605	26524	1.45	1.0E-52	AA034445.1	EST_HUMAN	Q16858 CAPREOMYLIN ESTERASE;
1373	14407	27377	9.9	1.0E-52	4504026	NT	zr73n12.s1 Scores_fetal_NHT Homo sapiens cDNA clone IMAGE:743879.3'
2542	15544		2.17	1.0E-52	4502238	NT	Homo sapiens glutamate-ammonia ligase (glutamine synthase) (GLUD) mRNA
						NT	Homo sapiens arylsulfatase D (ARSD), transcript variant 1, mRNA
						NT	polio reverse transcriptase homolog (retroviral element) [human, endogenous retroviral element RTVL-Hp1, Genomic, 680 nt]
3072	16129	28041	1.99	1.0E-52	S61070.1	NT	Human P-glycoprotein (MDR1) gene, exon 4
5406	18506	31386	4.22	1.0E-52	IM29428.1	NT	Human PMS2 related (HPMSR2) gene, complete cds
6533	19596	32859	2.4	1.0E-52	U58694.1	NT	Human aldolase C gene for fructose-1,6-bisphosphate aldolase
7864	20623	33687	2.35	1.0E-52	X07292.1	NT	Homo sapiens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory protein (napi) and survival motor neuron protein (smn) genes, complete cds
8160	21087	34486	0.55	1.0E-52	U80017.1	NT	Homo sapiens chromosome 21 segment HS21O027
8808	21775		1.13	1.0E-52	AL163227.2	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
9543	22506	35955	0.7	1.0E-52	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
10941	23861		1.21	1.0E-52	AW020370.1	EST_HUMAN	df08g05.y1 Mortan Fetal Cochlea Homo sapiens cDNA clone IMAGE:2483145.5'
10951	23871		1.14	1.0E-52	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21O002

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11117	24077	37001	1.84	1.0E-52	U48296.1	NT	Homo sapiens protein tyrosine phosphatase PTPCAAX1 (PTPCAAX1) mRNA, complete cds
13114	25633	31503	1.3	1.0E-52	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
3805	16845	20752	0.9	9.0E-53	4509094	NT	Homo sapiens protein kinase, cAMP dependent, regulatory, type II, beta (PRKAR2B) mRNA
4418	17445	30336	0.91	9.0E-53	AF001446.1	NT	Homo sapiens core binding factor alpha1 subunit (CBFA1) gene, exon 3
12477	25225		2.86	7.0E-53	BF23465.1	EST_HUMAN	801804777 F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4132769 5'
12881	25858		6.21	7.0E-53	AA407.1	EST_HUMAN	80407.1 NCI CGAP Bm23 Homo sapiens cDNA clone IMAGE:2096077 3' similar to contains THR.1t
5215	18224	31098	0.89	6.0E-53	BE295719.1	EST_HUMAN	601175776 F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3530048 5'
4126	17159	30047	3	5.0E-53	4758543	NT	Homo sapiens heterogenous nuclear ribonucleoprotein C (C1/C2) (HNRPC) mRNA
12110	24980	38580	1.54	5.0E-53	BE729270.1	EST_HUMAN	801561627 F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3831175 5'
12922	25253		1.67	5.0E-53	AW813565.1	EST_HUMAN	RC3-ST0197-151089-011-g10 ST0197 Homo sapiens cDNA
51	13171	26079	2.37	4.0E-53	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
51	13171	26080	2.37	4.0E-53	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
4839	17876	30764	1.11	4.0E-53	7705414	NT	Homo sapiens hook1 protein (HOOK1) mRNA
9771	22712		0.82	4.0E-53	AI613037.1	EST_HUMAN	308404.X1 NCI CGAP_U33 Homo sapiens cDNA clone IMAGE:2278327 3'
10114	23040		0.71	4.0E-53	F13090.1	EST_HUMAN	HSC4D1041 normalized infant brain cDNA Homo sapiens cDNA clone c-3d04
11548	24489	38044	2.93	4.0E-53	BF128701.1	EST_HUMAN	801810969 F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4053977 5'
11548	24489	38045	2.93	4.0E-53	BF128701.1	EST_HUMAN	801810969 F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4053977 5'
2659	15668	28685	2.64	3.0E-53	AB026598.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL4 genes, complete cds)
3744	16786	28688	1.01	3.0E-53	AW050836.1	EST_HUMAN	w22307.x1 Scores: Disc1refe_colon_NHCO Homo sapiens cDNA clone IMAGE:2586796 3'
5496	18699	31511	0.92	3.0E-53	AF001212.1	NT	Homo sapiens 26S proteasome subunit 9 mRNA, complete cds
5707	18802	31979	1.09	3.0E-53	11526297	NT	Homo sapiens MIL-1 protein (MIL1), mRNA
6318	18389	32629	0.95	3.0E-53	BE160025.1	EST_HUMAN	QV1-HT0412-280300-123-c04 HT0412 Homo sapiens cDNA
7305	20276	33613	0.88	3.0E-53	Y10388.3	NT	H sapiens gdf gene
7305	20276	33614	0.98	3.0E-53	Y10388.3	NT	H sapiens gdf gene
8647	21615	35037	12.56	3.0E-53	S72043.1	NT	GIF-growth inhibitory factor [human, brain, Genomic, 2016 nt]
9211	22177	35607	0.69	3.0E-53	10835060	NT	Homo sapiens bone morphogenetic protein 6 (BMP6), mRNA
9412	22377		6.63	3.0E-53	5901943	NT	Homo sapiens FGFR1 oncogene partner (FOP), mRNA
458	13551		2.53	2.0E-53	AA368556.1	EST_HUMAN	EST77525 Paucres tumor III Homo sapiens cDNA 5' end
2335	15346	28387	6.08	2.0E-53	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and F1P9 (F1P9) genes, complete cds
2543	15545		11.44	2.0E-53	4502316	NT	Homo sapiens ATPase, H+ transporting, lysosomal (vacuolar proton pump) 31ND, Vacuolar proton-ATPase, subunit E, V-ATPase, subunit E (ATP6E), mRNA

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2736	15730	28744	1.17	2.0E-53	4757915	NT	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated to, 1; cyclin D-related (CBFA2T1) mRNA
2736	15730	28745	1.17	2.0E-53	4757915	NT	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated to, 1; cyclin D-related (CBFA2T1) mRNA
3232	16209	29209	1.46	2.0E-53	7705687	NT	Homo sapiens leucine aminopeptidase (LOC50505), mRNA
3259	18313	26234	0.8	2.0E-53	AF083622.1	NT	Homo sapiens dihydropyridine receptor, alpha 2 subunit (CACNA2D1) gene, exon 6
4088	17122	30016	2.78	2.0E-53	M81873.1	NT	Human Kruppel-related DNA-binding protein (TF34) gene, partial cds
4520	17545	30432	1.23	2.0E-53	4506962	NT	Homo sapiens SKAP-55 homologue (SKAP-HOM) mRNA
5193	18202	31074	0.96	2.0E-53	AL163281.2	NT	Homo sapiens chromosome 21 segment HS21C081
5193	18202	31075	0.96	2.0E-53	AL163281.2	NT	Homo sapiens chromosome 21 segment HS21C081
5500	18600	31512	3.33	2.0E-53	BF334740.1	EST_HUMAN	PM1-CT0396-170800-001-903 CT0396 Homo sapiens cDNA
5500	18600	31513	3.33	2.0E-53	BF334740.1	EST_HUMAN	PM1-CT0396-170800-001-903 CT0396 Homo sapiens cDNA
8203	21173	34583	1.13	2.0E-53	AW975698.1	EST_HUMAN	EST187707 IMAGE resequences, MAGN Homo sapiens cDNA
8340	21309	-	0.61	2.0E-53	AA095652.1	EST_HUMAN	IS429 seq.F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA 5'
9763	22704	-	15.48	2.0E-53	AW245676.1	EST_HUMAN	2822665, SpHme NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822665 5'
1440	14473	27450	2	1.0E-53	AJ271736.1	NT	Homo sapiens Xc pseudobulbar region; segment 2/2
3421	18469	28369	1.29	1.0E-53	AB028688.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
5001	18015	30902	1.32	1.0E-53	BE296368.1	EST_HUMAN	60117725F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531919 5'
6850	19903	33198	1.43	1.0E-53	BF364201.1	EST_HUMAN	CMANNT1028-150800-543-602 NT1028 Homo sapiens cDNA
7456	20425	33761	0.84	1.0E-53	BE012071.1	EST_HUMAN	RC6-BN1058-270400-031-001 BN1058 Homo sapiens cDNA
8267	21236	34647	0.55	1.0E-53	AJ246072.1	EST_HUMAN	19571, seq.F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA 5'
9444	22408	35845	13.12	1.0E-53	X78506.1	NT	H sapiens mRNA for hMRNP core protein A1
12105	24976	35874	3.08	1.0E-53	X98411.1	NT	H sapiens mRNA for myosin-IE
12105	24976	35875	3.08	1.0E-53	X98411.1	NT	H sapiens mRNA for myosin-IE
5375	25636	31353	5.13	8.0E-54	4506786	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA
208	13309	26236	1.73	8.0E-54	BE386785.1	EST_HUMAN	60127365F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614031 5'
1852	14878	27874	2.4	8.0E-54	4504610	NT	Homo sapiens insulin-like growth factor 2 receptor (IGF2R) mRNA
6046	19127	32333	23.25	8.0E-54	6005700	EST_HUMAN	Homo sapiens ATP-binding cassette, sub-family A (ABC), member 8 (ABCA8), mRNA
11962	24841	38434	1.67	8.0E-54	AW592568.1	EST_HUMAN	h4460.5.1 Soares, NFL_T_GBC, S1 Homo sapiens cDNA clone IMAGE:2934752 3'
11962	24841	38435	1.67	8.0E-54	AW592568.1	EST_HUMAN	h4460.5.1 Soares, NFL_T_GBC, S1 Homo sapiens cDNA clone IMAGE:2934752 3'
384	19467	26428	1.85	7.0E-54	AA812937.1	EST_HUMAN	af9c12.2.1 Soares, beta5_NHT Homo sapiens cDNA clone 1377046 3' similar to contains MER30.13 MER30 repetitive element;
1847	14873	27859	1.51	7.0E-54	Y16645.1	NT	Homo sapiens mRNA for monocyte chemoattractant protein-2

Table 4

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2215	18228	28252	4.54	7.0E-54	N27177.1	EST_HUMAN	w66d12.s1 Soares_placenta_80cweeks_2Nbf-HP8a9W Homo sapiens cDNA clone IMAGE:257399 3' similar to contains LTR7.03 LTR1 repetitive element.
10487	23409	36906	1.91	7.0E-54		NT	Homo sapiens similar to nuclear factor related to kappa B binding protein (H. sapiens) (LOC63182), mRNA contains OFR.11 OFR repetitive element.
11623	24561		3.26	7.0E-54	AI160189.1	EST_HUMAN	ql87g03.x1 Soares_fetal_hear. NbfH19W Homo sapiens cDNA clone IMAGE:1705204 3' similar to
23	13145	28045	2.06	6.0E-54	AB003616.1	NT	Homo sapiens DNA for MCB, exon 4, 5 and partial cds
385	13498	26430	0.67	6.0E-54	8922148	NT	Homo sapiens hypothetical protein DKF-Zp434M035 (DKF-Zp434M035), mRNA
385	13498	26431	0.67	6.0E-54	8922148	NT	Homo sapiens hypothetical protein DKF-Zp434M035 (DKF-Zp434M035), mRNA
3296	18349	26269	0.89	6.0E-54	8922148	NT	Homo sapiens hypothetical protein DKF-Zp434M035 (DKF-Zp434M035), mRNA
3548	16592	26517	0.86	6.0E-54	AI168247.2	NT	Homo sapiens chromosome 21 segment HS21C047
4030	17088	29669	1.48	6.0E-54	4502872	NT	Homo sapiens chloride channel 6 (CLCN6) mRNA
4489	17514	30402	0.78	6.0E-54	AV784746.1	EST_HUMAN	AV784746 TP Homo sapiens cDNA clone TPGAAC10 5'
4819	17836	30734	0.94	6.0E-54	AV724865.1	EST_HUMAN	AV724865 HTB Homo sapiens cDNA clone HTBACE02 5'
4830	17897	30786	1.95	6.0E-54	4505606	NT	Homo sapiens phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (PIK4CA) mRNA
4809	17926		1.23	6.0E-54	Y08846.1	NT	H. sapiens shc pseudogene, p66 isoform
5035	17926		1.27	6.0E-54	Y08846.1	NT	H. sapiens shc pseudogene, p66 isoform
11771	23026	37446	1.6	6.0E-54	11433623	NT	Homo sapiens KIAA0071 protein (KIAA0071), mRNA
11771	23026	37447	1.6	6.0E-54	11433623	NT	Homo sapiens KIAA0071 protein (KIAA0071), mRNA
2180	15176	28197	3.75	5.0E-54	P51523	SWISSPROT	ZINC FINGER PROTEIN B4 (ZINC FINGER PROTEIN HPF2)
184	13284		319.6	4.0E-54	AF110103.1	NT	Tupais belangeri beta-actin mRNA, partial cds
957	14010	26963	29.88	4.0E-54	AA308764.1	EST_HUMAN	EST117636 Jurkat T-cells VI Homo sapiens cDNA 5' end similar to glyceraldehyde-3-phosphate dehydrogenase
1822	14848	27842	2.91	4.0E-54	D38521.1	NT	Human mRNA for KIAA0077 gene, partial cds
1822	14849	27843	2.91	4.0E-54	D38521.1	NT	Human mRNA for KIAA0077 gene, partial cds
3217	18272		1.03	4.0E-54	AI935086.1	EST_HUMAN	w26d11.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2329269 3' similar to TRC02711
7524	20488		0.68	4.0E-54	BE544869.1	EST_HUMAN	O02711 PRO-POL-DUTPASE POLYPROTEIN;
63	13209	26133	13.65	3.0E-54	AA313487.1	EST_HUMAN	601078004F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3461017 5'
2632	15631		1.1	3.0E-54	AI908757.1	EST_HUMAN	EST188371 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end
6007	10090	32200	1.52	3.0E-54	4502434	NT	IL-BT1892-190398-007 BT189 Homo sapiens cDNA
7619	20579	33942	1.49	3.0E-54	AA844061.1	EST_HUMAN	Homo sapiens BMX non-receptor tyrosine kinase (BMX) mRNA
7619	20579	33943	1.49	3.0E-54	AA844061.1	EST_HUMAN	ai92c08.s1 Soares_parrathyroid_tumor_NHHPA Homo sapiens cDNA clone IMAGE:1389270 3'
8081	21018	34418	0.51	3.0E-54	AI742622.1	EST_HUMAN	ai92c08.s1 Soares_parrathyroid_tumor_NHHPA Homo sapiens cDNA clone IMAGE:1389270 3'
							wg44b1.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2387933 3'

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11363	24312		4.82	3.0E-54	11434806	NT	Homo sapiens golgi autoantigen, golgin subfamily a, 5 (GOLGA5), mRNA
11423	24367	37902	3.55	3.0E-54	BF345900.1	EST_HUMAN	60201940BF1 NCL CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4155121 5'
11696	24661	38239	2.11	3.0E-54	AA393362.1	EST_HUMAN	27070212.1 Soares, Ieatie, NHT Homo sapiens cDNA clone IMAGE:727727 5' similar to TR:G191315
12334	25134	31850	4.08	3.0E-54	AW954559.1	EST_HUMAN	G191315 ANDROGEN-DEPENDENT EXPRESSED PROTEIN, ;
12390	25642		1.67	3.0E-54	AW148965.1	EST_HUMAN	EST386620 IMAGE resequencing, MAGC Homo sapiens cDNA
643	13709	26829	6.22	2.0E-54	5031800	NT	RC1-B70313-131199-011-509 B70313 Homo sapiens cDNA
1367	14401	27371	1.48	2.0E-54	4507164	NT	Homo sapiens killer cell lectin-like receptor subfamily G, member 1 (KLRG1), mRNA
1550	14583	27554	1.32	2.0E-54	AA655008.1	EST_HUMAN	Homo sapiens nuclear antigen Sp100 (SP100) mRNA
2546	15547	28570	1.04	2.0E-54	AW1163175.1	EST_HUMAN	nt78d03 a1 NCL CGAP_P3 Homo sapiens cDNA clone IMAGE:1204600 similar to contains element L1 repetitive element;
2608	15607	28631	1.45	2.0E-54	AL153210.2	EST_HUMAN	aa92g03 y1 Schnaider (fatal brain 00004 Homo sapiens cDNA clone IMAGE:2783764 5' similar to SW:CU1.1 HUMAN Q13616 CULLIN HOMOLOG 1;
2905	15964	29887	1.4	2.0E-54	AW057524.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C010
3559	16905		5.43	2.0E-54	AA532825.1	EST_HUMAN	wy60512X1 Soares, NSF_F8 BW_OT1.PA_P_S1 Homo sapiens cDNA clone IMAGE:2552927 3' similar to TR:062084 Q62084 PHOSPHOLIPASE C NEIGHBORING ;
4232	17261		1.73	2.0E-54	4502642	NT	nt45g09 a1 NCL CGAP_P6 Homo sapiens cDNA clone IMAGE:996488 similar to gb:X53777 60S RIBOSOMAL PROTEIN L23 (HUMAN);
4470	17496		1.18	2.0E-54	AF208161.1	NT	Homo sapiens chaperonin containing T-complex subunit 6 (CCT6) mRNA
4814	17831	30822	0.99	2.0E-54	7706446	NT	Homo sapiens synaptin precursor, mRNA, complete cds
5278	18284	31147	1.07	2.0E-54	4506962	NT	Homo sapiens peptidylarginine deiminase type III (LOC8702), mRNA
5551	18648	31591	1.3	2.0E-54	4759068	NT	Homo sapiens SKAP55 homologue (SKAP-HOM) mRNA
5684	18779	31932	1.25	2.0E-54	BE047864.1	EST_HUMAN	Homo sapiens small inducible cytokine subfamily A (Oxy-Oxy), member 14 (SCYA14) mRNA
5656	18946	32131	3.9	2.0E-54	11426637	NT	tx33c11.y1 NCL CGAP_Brn62 Homo sapiens cDNA clone IMAGE:2261348 5'
5661	19046	32245	10.03	2.0E-54	AB046811.1	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
5961	19046	32246	10.03	2.0E-54	AB046811.1	NT	Homo sapiens mRNA for KIAA1591 protein, partial cds
6814	19888	33157	0.77	2.0E-54	AF008915.1	NT	Homo sapiens EVI5 homologue mRNA, complete cds
6893	20206	33535	0.73	2.0E-54	AB023212.1	NT	Homo sapiens EVI5 homologue mRNA, complete cds
6893	20206	33536	0.73	2.0E-54	AB023212.1	NT	Homo sapiens mRNA for KIAA0395 protein, partial cds
7330	20301	33645	7.68	2.0E-54	11426544	NT	Homo sapiens mRNA for KIAA0395 protein, partial cds
6887	22014	36379	4.03	2.0E-54	AB001025.1	NT	Homo sapiens neurofibrin 1 (neurofibrinosis, von Recklinghausen disease, Watson disease) (NF1), mRNA
10369	23292	36708	1.61	2.0E-54	11426127	NT	Homo sapiens mRNA for brain ryanodine receptor, complete cds
10480	23402	36889	0.88	2.0E-54	11416762	NT	Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2) mRNA
							Homo sapiens serologically defined colon cancer antigen 10 (SDCAG10), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10430	23402	36900	0.88	2.0E-54	11416762	NT	Homo sapiens serologically defined colon cancer antigen 10 (SDCCAG10), mRNA
12034	24910		4.31	2.0E-54	7657454	NT	Homo sapiens pectadillo (zabrafish) homolog 1, containing BRCT domain (PEST1), mRNA
4492	17517		1.6	1.0E-54	BF315418.1	EST_HUMAN	801869230FT NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128935 5'
9081	22047	35470	0.51	1.0E-54	11417222	NT	Homo sapiens similar to nuclear factor related to kappa B binding protein (H. sapiens) (LOC63182), mRNA
10615	23537	37035	0.51	1.0E-54	AA412408.1	EST_HUMAN	zu10409.t1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:731484 5'
10815	23537	37035	0.51	1.0E-54	AA412409.1	EST_HUMAN	zu10409.t1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:731484 5'
12998	25554		4.2	1.0E-54	AL077341.1	EST_HUMAN	gemma-gliumyl transepeptidase mRNA, 5' end
10724	23646	37139	0.95	9.0E-55	BE081499.1	EST_HUMAN	QV2.B170835-150400-143412 BT0635 Homo sapiens cDNA
1318	14353		0.88	8.0E-55	V07628.2	NT	Homo sapiens RFB30 gene for RING finger protein
1321	14356		2.63	8.0E-55	V07628.2	NT	Homo sapiens RFB30 gene for RING finger protein
11528	24469		1.73	8.0E-55	AW408714.1	EST_HUMAN	hw08406.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2660907 5'
12390	25167		1.3	8.0E-55	BE327189.1	EST_HUMAN	Q9Z.U8 45 KDA SECRETORY PROTEIN ;
1083	14127	27081	1.52	7.0E-55	R09346.1	EST_HUMAN	XZ6404.t1 Soares fetal liver spleen_1NFL5 Homo sapiens cDNA clone IMAGE:127698 5' similar to SP-C561_BOVIN P10897 CYTOCHROME ;
9186	22122		1.54	7.0E-55	AW103839.1	EST_HUMAN	xz76502.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2803522 3' similar to TR_O60365
9336	22459	35947	1.22	7.0E-55	AA895581.1	EST_HUMAN	OD0365_FOS39554_1 ;
9570	22532	35982	2.15	7.0E-55	AL135909.1	EST_HUMAN	ak28411.t1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1407260 3'
11544	24485	38033	8.31	7.0E-55	AI561055.1	EST_HUMAN	AL135909 PLACE1 Homo sapiens cDNA clone IMAGE:1011576 5'
11544	24485	38039	8.31	7.0E-55	AI561056.1	EST_HUMAN	h22909.x1 NCI_CGAP_U1 Homo sapiens cDNA clone IMAGE:2210249 3'
12135	25004		1.8	7.0E-55	H48714.1	EST_HUMAN	h22909.x1 NCI_CGAP_U1 Homo sapiens cDNA clone IMAGE:2210249 3'
12966	25876		1.78	7.0E-55	H22396.1	EST_HUMAN	yt78403.r1 Soares fetal liver spleen_1NFL5 Homo sapiens cDNA clone IMAGE:201893 5'
11843	24726	38313	1.85	6.0E-55	AB040534.1	NT	ym5707.r1 Soares infant brain_1N1B Homo sapiens cDNA clone IMAGE:52444 5'
1785	14814	27798	1.3	5.0E-55	AY704971.1	EST_HUMAN	Homo sapiens mRNA for KIAA1501 protein, partial cds
1785	14814	27799	1.3	5.0E-55	AY704971.1	EST_HUMAN	365609.at1 Soares_fetal_liver_spleen_1NFL5_S1 Homo sapiens cDNA clone IMAGE:462617 3'
6590	19747	33023	1.65	5.0E-55	4502240	NT	365609.at1 Soares_fetal_liver_spleen_1NFL5_S1 Homo sapiens cDNA clone IMAGE:462617 3'
6590	19747	33024	1.65	5.0E-55	4502240	NT	Homo sapiens arylsulphatase E (chondrocyte/plasmat 1) (ARSE), mRNA
7237	20258	33692	0.69	5.0E-55	7382177	NT	Homo sapiens arylsulphatase E (chondrocyte/plasmat 1) (ARSE), mRNA
7513	20478	33639	0.86	5.0E-55	11434422	NT	Homo sapiens Rho GTPase activating protein 6 (ARHGAP6), transcript variant 5, mRNA
8327	21296	34711	0.74	5.0E-55	11526491	NT	Homo sapiens spectrin-type POZ protein (SPOP), mRNA
9359	22264	35796	2.57	5.0E-55	4506302	NT	Homo sapiens BCL2-associated athanogene (BAG1), mRNA
							Homo sapiens protein tyrosine phosphatase, receptor type, alpha polypeptide (PTPRA) mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9674	22627		1.9	5.0E-55	BE084386.1	EST_HUMAN	RC4-BT0310-10300-015-410 BT0310 Homo sapiens cDNA
10397	23319	36801	1.31	5.0E-55	AB014511.1	NT	Homo sapiens mRNA for KIA0611 protein, partial cds
10397	23319	36802	1.31	5.0E-55	AB014511.1	NT	Homo sapiens mRNA for KIA0611 protein, partial cds
10582	23504	36897	1.2	5.0E-55	5453765.1	NT	Homo sapiens mel (chicken)-like 2 (NELL2), mRNA
12419	25189		3.4	5.0E-55	11417972	NT	Homo sapiens pascuillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
57	15831	26088	1.49	4.0E-55	AW957864.1	EST_HUMAN	EST370064 IMAGE resequences, IMAGE Homo sapiens cDNA
673	13737	26664	31.1	4.0E-55	4826973	NT	Homo sapiens RNA binding motif protein, Y chromosome, family 1, member A1 (RBMYY1A1) mRNA
1517	14549		1.97	4.0E-55	BF061411.1	EST_HUMAN	7f2b10x1 Scores_NSIF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3390043 3' similar to contains L1.13 L1 repetitive element;
2040	15059	28078	1.04	4.0E-55	4506180	NT	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 2 (PSMA2) mRNA
2040	15059	28079	1.04	4.0E-55	4506180	NT	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 2 (PSMA2) mRNA
2097	18114	28134	8.73	4.0E-55	4503314	NT	Homo sapiens diacylglycerol kinase, gamma (90KD) (DGKG) mRNA
2097	18114	28135	8.73	4.0E-55	4503314	NT	Homo sapiens diacylglycerol kinase, gamma (90KD) (DGKG) mRNA
2319	18330	28334	2.06	4.0E-55	4507794	NT	Homo sapiens ubiquitin-conjugating enzyme E2 variant 1 (UBE2V1) mRNA
6687	21655		11	4.0E-55	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21G010
11933	24503		2.89	4.0E-55	W28169.1	EST_HUMAN	43c5 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
12335	25135		3.64	4.0E-55	BF30394.1	EST_HUMAN	601886576F2 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4120388 5'
6751	19805	33086	0.78	3.0E-55	AA077158.1	EST_HUMAN	7B09A09 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B09A09
12271	25063		1.91	3.0E-55	BE178519.1	EST_HUMAN	PM1-HT0603-050300-001-g08 HT0603 Homo sapiens cDNA
13007	25560		1.9	3.0E-55	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21G084
377	13481	26391	2.24	2.0E-55	X67147.1	NT	Human endogenous retrovirus PHE-1 (ERV9)
553	13623		1.59	2.0E-55	M10978.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
650	13716	26638	3.26	2.0E-55	4507286	NT	Homo sapiens syntaxin-binding protein 1 (STXBP1) mRNA, and translated products
2670	16028	28951	1.02	2.0E-55	4507798	NT	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A) mRNA
4808	17825	30721	2.19	2.0E-55	BE719986.1	EST_HUMAN	GM1-HT0876-158600-357-g03 HT0876 Homo sapiens cDNA
7747	25689	34087	0.69	2.0E-55	AW501988.1	EST_HUMAN	UIHF-BN0486-F06-D-UIF NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078275 5'
9420	22385	35823	0.51	2.0E-55	BF224452.1	EST_HUMAN	hr76h08.x1 NCI_CGAP_Ki411 Homo sapiens cDNA clone IMAGE:3134463 3'
9420	22385	35824	0.51	2.0E-55	BF224452.1	EST_HUMAN	hr76h08.x1 NCI_CGAP_Ki411 Homo sapiens cDNA clone IMAGE:3134463 3'
9515	22478		8.16	2.0E-55	A1002836.1	EST_HUMAN	enr8h05.a1 Stragone schizo brain S11 Homo sapiens cDNA clone IMAGE:1684185 3' similar to contains
9596	22598		0.78	2.0E-55	BE007969.1	EST_HUMAN	THR.b2 THR repetitive element;
10807	23529	37024	0.43	2.0E-55	A1439401.1	EST_HUMAN	QV0-BN0147-280400-213-g08 BN0147 Homo sapiens cDNA
11286	24246	37773	1.84	2.0E-55	AU119344.1	EST_HUMAN	Q30h08.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2140479 3'
							AU119344 HEMBA1 Homo sapiens cDNA clone HEMBA1005683 5'

Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12113	24983	38584	1.51	2.0E-55	BE386059.1	EST_HUMAN	801507719F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:309076 5'
96	13212	28135	2.4	1.0E-55	4505090	NT	Homo sapiens mannose-6-phosphate receptor (cation dependent) (MBPR) mRNA
191	13292	26218	93.01	1.0E-55	U09823.1	NT	Oryzotagus cuniculus New Zealand white elongation factor 1 alpha (Rabefia2) mRNA, complete cds
576	13645	26558	0.75	1.0E-55	A028718.1	EST_HUMAN	cd5509.x1 Soares, testis, NIH Homo sapiens cDNA clone IMAGE:1644160 3'
1152	14194	27148	4.22	1.0E-55	AB020710.1	NT	Homo sapiens mRNA for KIAA0603 protein, partial cds
1987	14688	27960	1.65	1.0E-55	BE277861.1	EST_HUMAN	801120110F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2987027 5'
1987	14988	27991	1.65	1.0E-55	BE277861.1	EST_HUMAN	801120110F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2987027 5'
2333	15344		3.95	1.0E-55	5803174	NT	Homo sapiens SMA3 (SMA3), mRNA
2345	15824	28376	1.31	1.0E-55	AF000990.1	NT	Homo sapiens testis-specific Testis Transcript Y 1 (TTY1) mRNA, partial cds
2524	15627	28548	52.04	1.0E-55	X13111.1	NT	Human mRNA for HLA-A1.E, a MHC class I molecule (major histocompatibility complex)
2561	15962	28590	4.92	1.0E-55	AB007866.2	NT	Homo sapiens mRNA for KIAA0408 protein, partial cds
2561	15962	28591	4.92	1.0E-55	AB007866.2	NT	Homo sapiens mRNA for KIAA0408 protein, partial cds
2619	15617	28641	4.78	1.0E-55	L54067.1	NT	Homo sapiens cLIP mRNA, partial cds
2801	15763	28811	0.88	1.0E-55	AB033045.1	NT	Homo sapiens mRNA for KIAA1219 protein, partial cds
3420	16488	28986	0.96	1.0E-55	W28186.1	EST_HUMAN	4365 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
4016	17064	28956	4.23	1.0E-55	AL163287.2	NT	Homo sapiens chromosome 21 segment HS21C087
4323	17352	30238	1.08	1.0E-55	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
4762	17782		1.21	1.0E-55	N77261.1	EST_HUMAN	y4403.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:245020 5'
4855	17882	30769	1.79	1.0E-55	AB037163.1	NT	Homo sapiens DSCR5b mRNA, complete cds
4855	17882	30770	1.79	1.0E-55	AB037163.1	NT	Homo sapiens DSCR5b mRNA, complete cds
5177	18188	31053	1.3	1.0E-55	8623126	NT	Homo sapiens hypothetical protein FLJ20126 (FLJ20126), mRNA
5575	18671	31634	0.56	1.0E-55	AF119856.1	NT	Homo sapiens PRO1851 mRNA, complete cds
6402	19470	32718	7	1.0E-55	11433046	NT	Homo sapiens hact domain and RLD 2 (HERC2), mRNA
6402	19470	32719	7	1.0E-55	11433046	NT	Homo sapiens hact domain and RLD 2 (HERC2), mRNA
7262	20016		0.69	1.0E-55	AF189420.1	NT	Homo sapiens F-box protein FBL4 (FBL4) mRNA, complete cds
8321	21260	34704	1.25	1.0E-55	11432894	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2), mRNA
8321	21260	34705	1.25	1.0E-55	11432894	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2), mRNA
8410	21376	34785	0.49	1.0E-55	11421649	NT	Homo sapiens SKAP65 homolog (SKAP-HOM), mRNA
8418	21387	34786	1.27	1.0E-55	AF224482.1	NT	Homo sapiens phospholipid scramblase 1 gene, complete cds
8418	21387	34787	1.27	1.0E-55	AF224482.1	NT	Homo sapiens phospholipid scramblase 1 gene, complete cds
11776	23631	37452	1.65	1.0E-55	U060950.1	NT	Human infant brain unknown product mRNA, complete cds
11795	23960	37471	1.58	1.0E-55	T10045.1	EST_HUMAN	seq1575 b4HB3MA Cx8-HAP-F1 Homo sapiens cDNA clone b4HB3MA-COT6-HAP-F161 5' similar to similar to Chinese Hamster OHRF-coamplified protein mRNA

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11902	24783	38371	1.74	1.0E-55	10567821	NT	Homo sapiens DNA-binding protein LOC56242 mRNA
7590	20551	33912	1.89	9.0E-58	BE376074.1	EST_HUMAN	60123702F1 NIH_MGC 44 Homo sapiens cDNA clone IMAGE:3609552 5'
2743	15737	28753	6.5	7.0E-56	H19834.1	EST_HUMAN	Yr62303.11 Soares adult brain N2658-B55Y Homo sapiens cDNA clone IMAGE:173044 5' similar to contains THR repetitive element
7802	20845	34229	2.13	7.0E-56	AW381213.1	EST_HUMAN	RC1-CT0252-23 1089-013-b07 CT0252 Homo sapiens cDNA
7802	20845	34230	2.13	7.0E-56	AW381213.1	EST_HUMAN	RC1-CT0252-23 1089-013-b07 CT0252 Homo sapiens cDNA
1701	14771	27713	1.99	5.0E-56	AW96712.1	EST_HUMAN	RC3-BN0053-170200-011-b01 BN0053 Homo sapiens cDNA
9516	22478	35923	0.61	5.0E-56	AW015507.1	EST_HUMAN	UHH-B10p-eau-e-05-U1 s1 NCI CGAP Sub2 Homo sapiens cDNA clone IMAGE:2710544 3'
10754	23676		1.7	5.0E-56	W28186.1	EST_HUMAN	4355 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
12507	25930	31309	5.41	5.0E-56	HE50360.1	EST_HUMAN	CHR220038 Chromosome 22 exon Homo sapiens cDNA clone C22_55 5'
30	13150	26049	12.5	4.0E-56	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
30	13150	26050	12.5	4.0E-56	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
2719	15713	28730	4.9	4.0E-56	4507728	NT	Homo sapiens tubulin, beta polypeptide (TUBB) mRNA
2719	15713	28731	4.9	4.0E-56	4507728	NT	Homo sapiens tubulin, beta polypeptide (TUBB) mRNA
2823	13598	26516	3.69	4.0E-56	AF003528.1	NT	Homo sapiens X-linked ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
2843	15620	28644	1.16	4.0E-56	AI632488.1	EST_HUMAN	w60908.x1 NCI CGAP GC8 Homo sapiens cDNA clone IMAGE:2305191 3' similar to SW:DCOR_MUSPA
2843	15620	28645	1.16	4.0E-56	AI632488.1	EST_HUMAN	P27119 ORNITHINE DECARBOXYLASE
6387	19455	32700	5.85	4.0E-56	AF217508.1	NT	w60908.x1 NCI CGAP GC8 Homo sapiens cDNA clone IMAGE:2305191 3' similar to SW:DCOR_MUSPA
6387	19455	32701	5.85	4.0E-56	AF217508.1	NT	P27119 ORNITHINE DECARBOXYLASE
10672	23792	37293	3.94	4.0E-56	AF043349.1	NT	Homo sapiens uncharacterized bone marrow protein BM031 mRNA, complete cds
11268	24220	37743	7.82	4.0E-56	AI498066.1	EST_HUMAN	Homo sapiens lymphocyte-specific protein 1 (LSP1) gene, LSP1-7 allele, partial cds
11268	24220	37744	7.82	4.0E-56	AI498066.1	EST_HUMAN	tr655912.x1 NCI CGAP Bm28 Homo sapiens cDNA clone IMAGE:21630043 3'
1345	14380	27349	1.74	3.0E-56	8924029	NT	tr655912.x1 NCI CGAP Bm28 Homo sapiens cDNA clone IMAGE:21630043 3'
1779	14808	27784	0.99	3.0E-56	6912743	EST	Homo sapiens hypothetical protein PR01304 (PR01304), mRNA
3142	16198	29109	1.83	3.0E-56	AA325828.1	EST_HUMAN	EST28889 Cerebellum II Homo sapiens cDNA 5' end
3142	16198	29110	1.83	3.0E-56	AA325828.1	EST_HUMAN	EST28889 Cerebellum II Homo sapiens cDNA 5' end
3947	18937		1.73	3.0E-56	AF055066.1	NT	Homo sapiens MHC class I region
3938	18978	29893	1.1	3.0E-56	BE339312.1	EST_HUMAN	601310203F1 NIH_MGC 44 Homo sapiens cDNA clone IMAGE:3831848 5'
4454	17480	30368	4.34	3.0E-56	AL183268.2	NT	Homo sapiens chromosome 21 segment HS21C088
4603	17624	30517	2.34	3.0E-56	5902083	NT	Homo sapiens superkiller viraloidic activity 2 (S. cerevisiae homolog)-like (SKV2L), mRNA
4841	17856		1.81	3.0E-56	BE863572.1	EST_HUMAN	601433154F1 NIH_MGC 72 Homo sapiens cDNA clone IMAGE:3623100 5'

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
14	13134	26032	1.11	8.0E-57	8923346	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
207	13391	26319	3.14	8.0E-57	AW816405.1	EST_HUMAN	QV4-S10234-181169-037-05 S10234 Homo sapiens cDNA
885	13940	26898	9.74	8.0E-57	AW264599.1	EST_HUMAN	x05d10.41 NC1 CGAP Br43 Homo sapiens cDNA clone IMAGE:2769251 3' similar to gbU05875
1833	14860	27838	2.19	8.0E-57	AA466109.1	EST_HUMAN	INTERFERON-GAMMA RECEPTOR BETA CHAIN PRECURSOR (HUMAN);
4946	17662	30632	1.11	8.0E-57	4557630	EST_HUMAN	z551b12.1 Scores tests: NHT Homo sapiens cDNA clone IMAGE:757151 5'
5073	18093	30955	1.32	8.0E-57	BE299916.1	EST_HUMAN	Homo sapiens glutamate receptor, ionotropic, AMPA 4 (GR/4) mRNA
5312	25849	31435	1.69	8.0E-57	11418185	NT	600944440.1 NIH MGSC.17 Homo sapiens cDNA clone IMAGE:2960864 5'
5539	16091	32863	0.54	8.0E-57	AB020705.1	NT	Homo sapiens acylase 2, mitochondrial (AC02), mRNA
6008	16666	32641	12.65	8.0E-57	AB023177.1	NT	Homo sapiens mRNA for KIAA0898 protein, partial cds
6824	20641	34003	0.71	8.0E-57	7962263	NT	Homo sapiens mRNA for KIAA0950 protein, partial cds
8024	20661	34337	2.69	8.0E-57	AB020644.1	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
8024	20661	34338	2.69	8.0E-57	AB020644.1	NT	Homo sapiens mRNA for KIAA0837 protein, partial cds
10848	23768	37267	0.44	8.0E-57	11428710	NT	Homo sapiens mRNA for KIAA0837 protein, partial cds
11807	13134	26032	2.8	8.0E-57	8923346	NT	Homo sapiens paired box gene 5 (B-cell lineage specific activator protein) (PAX5), mRNA
12088	24690	38557	1.67	8.0E-57	11431260	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
12733	25396	31751	3.29	8.0E-57	11545732	NT	Homo sapiens Ras suppressor protein 1 (RSU1), mRNA
12748	25396	31751	1.39	8.0E-57	11545732	NT	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA
3293	16317	29237	1.09	7.0E-57	7242158	NT	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA
3293	16317	29238	1.09	7.0E-57	7242158	NT	Homo sapiens NME7 (NME7), mRNA
3284	16338	29238	0.65	7.0E-57	6005978	NT	Homo sapiens NME7 (NME7), mRNA
3891	16931	29840	2.63	7.0E-57	AF012872.1	NT	Homo sapiens Kruppel-like factor 8 (KLF8), mRNA
3891	16931	29841	2.63	7.0E-57	AF012872.1	NT	Homo sapiens phosphotyrosine 4-kinase 230 (p4K230) mRNA, complete cds
4816	17633	30731	1.03	7.0E-57	U11058.2	NT	Homo sapiens phosphotyrosine 4-kinase 230 (p4K230) mRNA, complete cds
13075	25884		3.96	5.0E-57	AJ271735.1	NT	Homo sapiens large conductance calcium- and voltage-dependent potassium channel alpha subunit (MaxK) mRNA, complete cds
3766	16908	29718	2.12	4.0E-57	AB026998.1	NT	Homo sapiens Xa pseudotumor region; segment 1/2
805	13863	28813	0.93	3.0E-57	4507798	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
1334	14368		58.46	3.0E-57	44230279.1	EST_HUMAN	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A) mRNA
2400	15407	28431	0.95	3.0E-57	AJ348335.1	EST_HUMAN	nc1307.s1 NC1 CGAP P11 Homo sapiens cDNA clone IMAGE:1008037 similar to SW:RS10_HUMAN
							p46783.40S RIBOSOMAL PROTEIN S10 ;
							EST154770 Hippocampus II Homo sapiens cDNA 5' end

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORT SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2714	15708	28724	1.19	3.0E-57	BE676622.1	EST_HUMAN	793510.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:328643 3' similar to WP:Y47H9C.2 CE20263 ;
2714	15708	28725	1.19	3.0E-57	BE676622.1	EST_HUMAN	793510.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:328644 3' similar to WP:Y47H9C.2 CE20263 ;
3711	19220	32450	26.47	3.0E-57	AW853964.1	EST_HUMAN	RG3-CT0254-10300-027-d10 CT0254 Homo sapiens cDNA
6145	16224	32450	1.37	3.0E-57	11225608	NT	Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA
6246	19319	32459	3.49	3.0E-57	BE796537.1	EST_HUMAN	601598066F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:394302 5'
8484	21452	34870	2.81	3.0E-57	W28130.1	EST_HUMAN	4216 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
8510	21478	34891	1.9	3.0E-57	11545708	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
8510	21478	34892	1.9	3.0E-57	11545708	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
8824	21592	35011	0.56	3.0E-57	11427757	NT	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA
8772	21739	35160	0.66	3.0E-57	J05262.1	NT	Human farnesyl pyrophosphate synthetase mRNA, complete cds
9210	22176	35608	4.85	3.0E-57	AU117659.1	EST_HUMAN	AU117659 HEMBA1 Homo sapiens cDNA clone HEMBA1001010 5'
9605	22609	36060	0.7	3.0E-57	11545708	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
9605	22609	36061	0.7	3.0E-57	11545708	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
11264	24207	37729	2.96	3.0E-57	AW248374.1	EST_HUMAN	Z8204733 SpHme NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2820473 5'
12384	25951	31314	7.53	3.0E-57	W23871.1	EST_HUMAN	zb45d11.r1 Scores_fetal_lung_NH-L19W Homo sapiens cDNA clone IMAGE:306549 5'
1500	14533	27504	1.05	2.0E-57	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
1500	14533	27505	1.05	2.0E-57	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3452	16498	28529	2.19	2.0E-57	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
3562	16608	29529	0.65	2.0E-57	R07702.1	EST_HUMAN	ye98h07.r1 Scores_fetal_liver_spleen NFILS Homo sapiens cDNA clone IMAGE:125809 5'
3562	16608	29530	0.65	2.0E-57	R07702.1	EST_HUMAN	ye98h07.r1 Scores_fetal_liver_spleen NFILS Homo sapiens cDNA clone IMAGE:125809 5'
3951	16691	29907	0.86	2.0E-57	BE073264.1	EST_HUMAN	MRO-BT0551-060300-103-b03 BT0551 Homo sapiens cDNA
4536	17561	30448	6.69	2.0E-57	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
5139	18148	31027	1.74	2.0E-57	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C008
							ze61c05.r1 Scores_refina_NZB4-HS Homo sapiens cDNA clone IMAGE:360584 5' similar to contains L1.03 L1 repetitive element ;
5751	18945		1.67	2.0E-57	AA016131.1	EST_HUMAN	7n80104.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3570866 3' similar to contains TAR1.11 MER22 repetitive element ;
6150	19225		32.23	2.0E-57	BF115266.1	EST_HUMAN	7n80104.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3570866 3' similar to contains TAR1.11 MER22 repetitive element ;
6283	19355	32591	0.7	2.0E-57	11431281	NT	Homo sapiens small inducible cytokine subfamily A (Cys-Cys), member 22 (SCYA22), mRNA
6978	21944	35368	1.02	2.0E-57	AF045452.1	NT	Homo sapiens cell-line K562 transcriptional regulatory protein p54 mRNA, complete cds
10205	23130	36057	1.63	2.0E-57	AF057722.1	NT	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, exons 3 and 4
11601	24539	36097	1.88	2.0E-57	11424084	NT	Homo sapiens hypothetical protein FLJ20041 (FLJ20041), mRNA
11601	24539	36098	1.88	2.0E-57	11424084	NT	Homo sapiens hypothetical protein FLJ20041 (FLJ20041), mRNA

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Source	Top Hit Descriptor
11642	24579	38145	1.74	2.0E-57	AJ245903.1	NT	Homo sapiens partial mRNA for PEX5 related protein
11642	24579	38146	1.74	2.0E-57	AJ245903.1	NT	Homo sapiens partial mRNA for PEX5 related protein
2240	15244	28278	1.49	1.0E-57	AF1503208.1	EST_HUMAN	UHF-BNO-41-g-07-Q-U1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078348.5
9041	22007		4.47	1.0E-57	BE043931.1	EST_HUMAN	h02a08.x1 NCI_CGAP_L242 Homo sapiens cDNA clone IMAGE:3039082.3 similar to TR:O00248 O00248
12537	25281		3.95	1.0E-57	AW470791.1	EST_HUMAN	HYPOPHYSAL 9.3 KD PROTEIN ; THR repetitive element;
5790	18853	32033	1.01	9.0E-58	AA267847.1	EST_HUMAN	h633406.x1 NCI_CGAP_K12 Homo sapiens cDNA clone IMAGE:2875459.3 similar to contains THR b3
12795	25424	31738	2.37	9.0E-58	BE395091.1	EST_HUMAN	EST11348 Uterus Homo sapiens cDNA 5' end
591	13698		2.43	8.0E-58	BE868715.1	EST_HUMAN	601309485F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3631000.5
655	13721	26944	2.84	8.0E-58	AI798378.1	EST_HUMAN	601443946F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3650211.5
655	13721	26845	2.84	8.0E-58	AI798376.1	EST_HUMAN	h34807.x1 NCI_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2220181.3 similar to TR:O15475 O15475
1874	14899	27897	1.98	8.0E-58	11434921	NT	UNNAMED HERV-H PROTEIN ;
1874	14899	27898	1.98	8.0E-58	11434921	NT	Homo sapiens putative protein O-mannosyltransferase (POMT2), mRNA
2887	19045		2.65	8.0E-58	7706132	NT	Homo sapiens putative protein O-mannosyltransferase (POMT2), mRNA
7449	20415	33769	0.95	7.0E-58	BE561971.1	EST_HUMAN	Homo sapiens DHHC1 protein (LOC51304), mRNA
11203	24157		4.96	7.0E-58	5174542	NT	601346704F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3867577.5
11275	24227	37753	2.79	7.0E-58	AW504109.1	EST_HUMAN	Homo sapiens MAD5 box transcription enhancer factor 2, polypeptide B (myocyte enhancer factor 2B) (MEF2B) mRNA
11275	24227	37754	2.79	7.0E-58	AW504109.1	EST_HUMAN	UHF-BNO-41-g-10-Q-U1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079887.5
2385	15393	28419	4.05	6.0E-58	AI130689.1	EST_HUMAN	UHF-BNO-41-g-10-Q-U1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079887.5
2912	19970	28893	1.62	6.0E-58	BE242190.1	EST_HUMAN	AL130689 NT2R23 Homo sapiens cDNA clone NT2R3001263.5
2912	19970	28894	1.62	6.0E-58	BE242190.1	EST_HUMAN	TCAP1E1219 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project TCAA Homo sapiens cDNA clone TCAAP1219
6294	19366	32605	1.16	6.0E-58	AF106911.1	NT	TCAP1E1219 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project TCAA Homo sapiens cDNA clone TCAAP1219
10672	23594	37091	1.02	6.0E-58	11434746	NT	Homo sapiens chemokine MIP-2 gamma (MIP-2 gamma), complete cds
12829	25316		1.41	6.0E-58	11528291	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type 21 (PTNP21), mRNA
300	13394	26321	4.35	5.0E-58	4507334	NT	Homo sapiens hypothetical protein FL20454 (FL20454), mRNA
1191	13773	26707	7.65	5.0E-58	BE763894.1	EST_HUMAN	Homo sapiens synaptobrevin 1 (STX1), mRNA
1190	14239	27195	3.77	5.0E-58	AW797948.1	EST_HUMAN	RC4-NT0057-160600-016-066 NT0057 Homo sapiens cDNA
1190	14239	27196	3.77	5.0E-58	AW797948.1	EST_HUMAN	QW3-UM0043-240300-127-407 UM0043 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1200	14239	27165	3.1	5.0E-58	AW76948.1	EST_HUMAN	GMB-UM0043-240300-127-407 UM0043 Homo sapiens cDNA
1200	14239	27166	3.1	5.0E-58	AW76948.1	EST_HUMAN	GMB-UM0043-240300-127-407 UM0043 Homo sapiens cDNA
3334	16985	26305	3.85	5.0E-58	AA988183.1	EST_HUMAN	0898407.1 NC_ CGAP_L10 Homo sapiens cDNA clone IMAGE:1603608 3'
4287	17916	30195	0.95	5.0E-58	AI639745.1	EST_HUMAN	0898407.1 NC_ CGAP_L10 Homo sapiens cDNA clone IMAGE:2238468 3' similar to SW:PRO2_ACACA P16984 PROFILIN II ;
5710	18804		2.2	5.0E-58	11466282	NT	Homo sapiens placenta-specific 1 (PLAG1), mRNA
6302	19273	32612	5.97	5.0E-58	H23072.1	EST_HUMAN	YMF107.1 Scores infant brain T1B8 Homo sapiens cDNA clone IMAGE:52071 5'
6334	19367	32660	0.94	5.0E-58	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
6815	19673	32651	1.16	5.0E-58	11421330	NT	Homo sapiens apical protein, Xenopus laevis-like (APXL), mRNA
6945	20169	33492	0.7	5.0E-58	AF051334.1	NT	Homo sapiens albumin (NBS) mRNA, complete cds
7313	20284	33625	0.8	5.0E-58	AF051334.1	NT	Homo sapiens albumin (NBS) mRNA, complete cds
8302	21271	34653	7.32	5.0E-58	8922693	NT	Homo sapiens holocytochrome c synthase (cytochrome c heme-lyase) (HCCS) mRNA
8698	21664	35088	0.76	5.0E-58	AB046837.1	NT	Homo sapiens hypothetical protein FLJ10828 (FLJ10828), mRNA
8695	22648	36103	1.34	5.0E-58	5231227	NT	Homo sapiens mRNA for KIAA1617 protein, partial cds
8695	22648	36104	1.34	5.0E-58	5231227	NT	Homo sapiens ribonuclease B precursor (RNASEBPL), mRNA
10216	23141	36626	1.01	5.0E-58	11430647	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Psp18 (PRP18), mRNA
10482	23404	36601	1.68	5.0E-58	AL183218.2	NT	Homo sapiens chromosome 21 segment HS21C018
10768	23687	37183	0.51	5.0E-58	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
10768	23687	37184	0.51	5.0E-58	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
12932	25878		2.17	5.0E-58	11526293	NT	Homo sapiens cat eye syndrome chromosome region, candidate 1 (CECR1), mRNA
12791	26504		1.48	5.0E-58	11426423	NT	Homo sapiens acyl-Coenzyme A carboxylase alpha (ACACA), mRNA
13015	25665		2.08	5.0E-58	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
373	13459	26388	1.85	4.0E-58	4502302	NT	Homo sapiens ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit (oligomycin sensitivity conferring protein) (ATP5O), mRNA
787	13555	26803	1.42	4.0E-58	4504634	NT	Homo sapiens interleukin 10 receptor, beta (L10RB), mRNA
1464	14497	27471	1.14	4.0E-58	4503548	NT	(F9), mRNA
2639	15638	26651	2.02	4.0E-58	U86251.1	NT	Human beta-prime-adaptin (GAM22) gene, exon 3
3338	16397	26308	1.11	4.0E-58	D16470.1	NT	Human mRNA, Xq terminal portion
3753	18765	26706	1.02	4.0E-58	5031660	NT	Human EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
8120	21057	34454	0.69	4.0E-58	BE463957.1	EST_HUMAN	hy18402.1 NC_ CGAP_L10 Homo sapiens cDNA clone IMAGE:3187642 3'
11671	24607	38194	7.52	4.0E-58	11424050	NT	Homo sapiens E1B-55kDa-associated protein 5 (E1B-AP5), mRNA
335	13424		0.84	3.0E-58	R17819.1	EST_HUMAN	Y910402.1 Scores infant brain T1B8 Homo sapiens cDNA clone IMAGE:31693 5'

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1390	14424	27993	2.32	3.0E-58	4759881	NT	Homo sapiens peptide YY (PYY) mRNA
3193	16248	29165	2.57	3.0E-58	BF569848.1	EST_HUMAN	602185786F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4309843 5'
3193	16248	29166	2.57	3.0E-58	BF569848.1	EST_HUMAN	602185786F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4309843 5'
6390	19458	32703	0.61	3.0E-58	BE089509.1	EST_HUMAN	QVQ-870702-170400-194-09 BT0702 Homo sapiens cDNA
6597	19647	32916	0.79	3.0E-58	F07056.1	EST_HUMAN	ASC1T0087 normalized infant brain cDNA Homo sapiens cDNA clone c-11p08
6797	19851	33136	3.92	3.0E-58	AV712977.1	EST_HUMAN	Homo sapiens 5-aminolevulinic synthase 2 (ALAS2) gene, complete cds
939	13992	26944	8.95	2.0E-58	AF068624.1	NT	6048407.v1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2622783 5' similar to gb:560301.60S
1294	14329		8.41	2.0E-58	BE208532.1	EST_HUMAN	RIBOSOMAL PROTEIN L8 (HUMAN); gb:X81987.M.musculus mRNA for TAX responsive element binding protein (MOUSE);
5409	18512	31590	0.75	2.0E-58	AW074831.1	EST_HUMAN	xb08a09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2567704 3'
5431	28638	31413	3.26	2.0E-58	BE907186.1	EST_HUMAN	601498961F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901811 5'
5431	28638	31441	3.25	2.0E-58	BE907186.1	EST_HUMAN	601498961F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901811 5'
6175	19230	32463	1.09	2.0E-58	BF513488.1	EST_HUMAN	Uih-BW1-ams-g-11-0-JL1.s1 NCI_CGAP_S467 Homo sapiens cDNA clone IMAGE:3071060 3'
6244	19317	32547	1.95	2.0E-58	A1124874.1	EST_HUMAN	am57402.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539674 3' similar to WP:ZK328.1
6278	19350	32584	0.93	2.0E-58	R32587.1	EST_HUMAN	CE09065 UBQUITIN CONJUGATING ENZYME; RECOVERIN SUBFAMILY OF EF-HAND CALCIUM BINDING PROTEIN;
7112	20046	33348	0.93	2.0E-58	A1291407.1	EST_HUMAN	YD08Y067.1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:1895424 3'
7394	20334	33983	2.68	2.0E-58	AF134838.1	NT	Homo sapiens endocytic receptor Endoc180 (ENDOC180) mRNA, complete cds
7394	20334	33984	2.68	2.0E-58	AF134838.1	NT	Homo sapiens endocytic receptor Endoc180 (ENDOC180) mRNA, complete cds
11093	24053	37576	18.24	2.0E-58	BF307745.1	EST_HUMAN	601880812F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4431881 5'
11312	24262	37768	1.48	2.0E-58	AW872641.1	EST_HUMAN	hm25068.x1 NCI_CGAP_Thy1 Homo sapiens cDNA clone IMAGE:3013671 3'
723	13785	28719	0.88	1.0E-58	M65134.1	NT	Human complement component C5 mRNA, 3' end
1069	14114	27064	5.86	1.0E-58	6274549	NT	Homo sapiens NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 9 (22AD, B22) (NDUFB9) mRNA
1330	14365	27333	2.03	1.0E-58	AW067182.1	EST_HUMAN	EST1369252 IMAGE resequences, MAGO Homo sapiens cDNA
1330	14365	27334	2.03	1.0E-58	AW067182.1	EST_HUMAN	EST1369252 IMAGE resequences, MAGO Homo sapiens cDNA
1397	14431	27400	0.99	1.0E-58	AJ238903.1	NT	Homo sapiens partial AF-4 gene, exons 2 to 7 and Alu repeat elements
1672	14704	27881	0.95	1.0E-58	BE466132.1	EST_HUMAN	hy1063.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:3166335 3'
2814	15806	28625	1.21	1.0E-58	4759168	NT	Homo sapiens atad regulatory element binding transcription factor 2 (SREBF2) mRNA
3548	16594	29521	1.19	1.0E-58	4759081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
3733	16775	29697	0.7	1.0E-58	4507628	NT	Homo sapiens transition protein 1 (during histone to protamine replacement) (TNPI1) mRNA

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5006	18020	30908	5.17	1.0E-58	AI141063.1	EST_HUMAN	cc49h01.x1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:1678129 3'
5941	19027	32221	1.18	1.0E-58	BE061860.1	EST_HUMAN	RC1-BT0254-230100-015-401 BT0254 Homo sapiens cDNA
7049	20088	33374	0.64	1.0E-58	11422031.NT	EST_HUMAN	Homo sapiens hypothetical protein (LOC61260), mRNA
8451	21420		0.5	1.0E-58	AW073537.1	EST_HUMAN	EST356537 IMAGE resources, MAGM Homo sapiens cDNA
9221	22157	35619	0.59	1.0E-58	4505314.NT	EST_HUMAN	Homo sapiens myosin (M-protein) 2 (168K0) (MYOM2), mRNA
9933	22298	35727	0.84	1.0E-58	AV751001.1	EST_HUMAN	AV751001 NPC Homo sapiens cDNA clone NPC0408 5'
9436	22400	35837	0.55	1.0E-58	AA412397.1	EST_HUMAN	z59505.x1 Soares_Iella_NHT Homo sapiens cDNA clone IMAGE:730497 5'
9436	22400	35838	0.55	1.0E-58	AA412397.1	EST_HUMAN	z59505.x1 Soares_Iella_NHT Homo sapiens cDNA clone IMAGE:730497 5'
10546	23468	38963	0.38	1.0E-58	11432894.NT	EST_HUMAN	Homo sapiens disc large (Drosophila) homolog 2 (chapsyn-110) (DLG2), mRNA
12058	24942		2.81	1.0E-58	X63392.1	NT	H. sapiens immunoglobulin kappa light chain variable region L14
2238	16252	28276	21.09	8.0E-59	4807378.NT	EST_HUMAN	Homo sapiens TATA box binding protein (TBP), mRNA
7016	20141	33458	0.71	8.0E-59	AA382291.1	EST_HUMAN	EST95983 Testis 1 Homo sapiens cDNA 5' end
7015	20141	33459	0.71	8.0E-59	AA382291.1	EST_HUMAN	EST95983 Testis 1 Homo sapiens cDNA 5' end
8621	21489	34904	3.74	8.0E-59	A1761963.1	EST_HUMAN	W50408.x1 NCI_CGAP_Kd11 Homo sapiens cDNA clone IMAGE:2384171 3'
179	15834		3.9	8.0E-59	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3862088 5'
8151	21089	34489	1.84	8.0E-59	AA62431.1	EST_HUMAN	cm81a04.at NCI_CGAP_Kd3 Homo sapiens cDNA clone IMAGE:1553550 3' similar to TR.Q13732 Q13732 SA GENE PRODUCT PRECURSOR.
8598	21556	34972	0.56	6.0E-59	A1750070.1	EST_HUMAN	cm09h02.y1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cm09h02 random
1788	14797	27782	1.19	5.0E-59	AW157281.1	EST_HUMAN	au89h05.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2763965 3' similar to TR.O75786 O75786 GANGLIOSIDE-INDUCED DIFFERENTIATION ASSOCIATED PROTEIN 1.1
1798	14787	27783	1.19	5.0E-59	AW157281.1	EST_HUMAN	au89h05.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2763965 3' similar to TR.O75786 O75786 GANGLIOSIDE-INDUCED DIFFERENTIATION ASSOCIATED PROTEIN 1.1
3144	16201	29112	7.03	5.0E-59	A1807484.1	EST_HUMAN	wf48c11.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2388836 3'
4697	17709		7.38	5.0E-59	X63497.1	NT	H.sapiens DNA for ZNF80-linked ERV9 long terminal repeat
5798	16888	32070	0.58	5.0E-59	6005693.NT	EST_HUMAN	Homo sapiens ataxin 2 related protein (A2LP), mRNA
7182	18413	31216	7.91	5.0E-59	AW182304.1	EST_HUMAN	au68c07.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781228 3' similar to contains element TAR1 repetitive element
9158	22124	35553	0.95	5.0E-59	11421778.NT	EST_HUMAN	Homo sapiens polymerase (RNA) III (DNA directed) (39K) (RPOC39), mRNA
10053	22980	36459	1.94	5.0E-59	AV762669.1	EST_HUMAN	AV762669 MDS Homo sapiens cDNA clone IMAGE:MDSEIC12 5'
11253	24209	37728	3.1	5.0E-59	11434603.NT	EST_HUMAN	Homo sapiens hypothetical protein (LOC57143), mRNA
794	13953	28801	3.22	4.0E-59	D80006.1	NT	Human mRNA for KIAA0784 gene, partial cds
1242	14278	27239	0.75	4.0E-59	4505818.NT	EST_HUMAN	Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type II, beta (PIP5K2B) mRNA, and translated products

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1242	14278	27240		0.76	4503818	NT	Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type II, beta (PIP5K2B), mRNA, and translated products
5915	18711	31869		1.04	11034810	NT	Homo sapiens catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein) (CTNND2), mRNA
12107	24977	38576		1.6	7657426	NT	Homo sapiens origin recognition complex, subunit 6 (yeast homolog)-like (ORC6L), mRNA
12492	28810			2.86	AF057720.1	NT	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, promoter region and exon 1
10	13130			6.6	AW96524.1	EST_HUMAN	EST1377592 MACGE resequences, MAGI Homo sapiens cDNA
228	13327	20250		4.47	7662247	NT	Homo sapiens KIAA0980 gene product (KIAA0980), mRNA
1723	14753	27738		11.42	4503860	NT	Homo sapiens plasminogen activator, tissue (PLATg) mRNA
1723	14753	27739		11.42	4503860	NT	Homo sapiens plasminogen activator, tissue (PLATg) mRNA
2139	16198	28171		6.05	3.0E-59/AB029035.1	NT	Homo sapiens mRNA for KIAA1112 protein, partial cds
2139	16198	28172		6.05	3.0E-59/AB029035.1	NT	Homo sapiens mRNA for KIAA1112 protein, partial cds
3146	16203	29116		2.91	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3146	16203	29117		2.91	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3838	16878	29761		1.28	3.0E-59/4503844	NT	Homo sapiens zona pellucida glycoprotein 2 (epimer receptor) (ZP2) mRNA
4712	17732	30028		1.4	3.0E-59/AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4878	17895	30785		1.66	3.0E-59/7427522	NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA
5091	18101			1.05	3.0E-59/M95961.1	NT	Human prothrombin converting enzyme (NEC2) gene, exon 2
6346	18415	32656		1.98	8924074	NT	Homo sapiens hypothetical protein PRO1741 (PRO1741), mRNA
7584	20545	33303		2.12	3.0E-59/5454137	NT	Homo sapiens nuclear receptor co-repressor 1 (NCOAR1), mRNA
8263	21232	34642		1.3	3.0E-59/X12586.1	NT	Human mRNA for dbi proto-oncogene
8263	21232	34643		1.5	3.0E-59/X12586.1	NT	Human mRNA for dbi proto-oncogene
10404	23326	36809		0.84	3.0E-59/X70251.1	NT	H. sapiens CKII-alpha gene
10404	23326	36810		0.84	3.0E-59/X70251.1	NT	H. sapiens CKII-alpha gene
12470	25219			1.37	3.0E-59/11417868	NT	Homo sapiens gamma-glutamyltransferase-like activity 1 (GGTLA1), mRNA
12812	26311			7.97	11417868	NT	Homo sapiens gamma-glutamyltransferase-like activity 1 (GGTLA1), mRNA
5985	19070	32268		0.82	2.0E-59/BF508383.1	EST_HUMAN	UJ-HB1-ey-b-02-QJ1.1 NC1 CGAP, Sub8 Homo sapiens cDNA clone IMAGE:3086522 3'
5985	19070	32269		0.82	2.0E-59/BF508383.1	EST_HUMAN	UJ-HB1-ey-b-02-QJ1.1 NC1 CGAP, Sub8 Homo sapiens cDNA clone IMAGE:3086522 3'
6979	20202			0.61	2.0E-59/AA470073.1	EST_HUMAN	2693405.61 Soares, Jettis, NHT Homo sapiens cDNA clone IMAGE:730377 3'
7272	20007	33307		0.57	2.0E-59/AF135187.1	NT	Homo sapiens interferon-induced protein p78 (MX1) gene, complete cds
8032	21019			0.52	2.0E-59/BF373339.1	EST_HUMAN	MRC-F10144-250700-002-010 F10144 Homo sapiens cDNA
9695	22022			4.9	2.0E-59/AA306774.1	EST_HUMAN	EST180093 Jurkat T-cells V Homo sapiens cDNA 5' end
10893	23813			1.55	2.0E-59/BF365554.1	EST_HUMAN	RCO-NT0036-100700-002-a07 NT0036 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11180	24136	37687	2.94	2.0E-56	AW410698.1	EST_HUMAN	fln70764.1t NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2661654 5'
11180	24136	37688	2.34	2.0E-56	AW410698.1	EST_HUMAN	fln70764.1t NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2661654 5'
12373	25158	31857	6.86	2.0E-58	AB31808.1	EST_HUMAN	wa26c12.x1 NCL CGAP Kid11 Homo sapiens cDNA clone IMAGE:2300182 3' similar to TR086542
12984	25938	31426	4.02	2.0E-56	L11845.1	NT	Q086542 RYLH1 PROTEIN, contains L1R7.b1 L1R7 repetitive element;
154	13267		18.92	1.0E-56	BE266411.1	EST_HUMAN	Homo sapiens alpha-tubulin mRNA, complete cds
2625	15624						ce56h11.61 NCL CGAP GCB1 Homo sapiens cDNA clone IMAGE:1300209 3' similar to TR013537
7812	20761	34137	3.89	1.0E-56	AA748468.1	EST_HUMAN	Q13537 MER37 TRANSCRIPTION FACTOR, COMPLETE CONSENSUS SEQUENCE. ;
7986	20925	34318	1.07	1.0E-56	BE256814.1	EST_HUMAN	601111951F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352692 5'
7986	20925	34320	1.07	1.0E-56	BE256814.1	EST_HUMAN	601111951F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352692 5'
9740	22768	36222	0.85	1.0E-56	11419630.1	NT	Homo sapiens zinc finger protein 275 (ZNF275), mRNA
9663	22860	36351	0.54	1.0E-56	11428849.1	NT	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
9663	22860	36352	0.54	1.0E-56	11428849.1	NT	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
11201	20761	34137	9.85	1.0E-56	AL130894.1	NT	EST389549 MAGE resequences, MAGE Homo sapiens cDNA
764	13824	26768	2.29	8.0E-60	AW877845.1	EST_HUMAN	Homo sapiens small nuclear ribonucleoprotein D3 polypeptide (18kD) (SNRPD3) mRNA
1467	14500	27474	2.65	8.0E-60	5174656.1	NT	Homo sapiens differentiation-related gene 1 (nuclei-specific induction protein) (RTP) mRNA
2182	15197	28217	2.65	8.0E-60	5174656.1	NT	Homo sapiens differentiation-related gene 1 (nuclei-specific induction protein) (RTP) mRNA
2182	15197	28218	2.65	8.0E-60	5174656.1	NT	Homo sapiens differentiation-related gene 1 (nuclei-specific induction protein) (RTP) mRNA
6094	19173	32368	0.84	8.0E-60	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
6953	19710	32987	1.01	8.0E-60	S83182.1	NT	hyaluronan-binding protein=heparocyte growth factor activator homolog (human, plasma, mRNA, 2408 nt)
7962	20903	34295	0.99	8.0E-60	11420841.1	NT	Homo sapiens phosphatase cytidyltransferase 1, choline, beta isoform (PCYT1B), mRNA
8298	21267	34678	2.37	8.0E-60	X17033.1	NT	Human mRNA for integrin alpha-2 subunit
9291	22257	35687	2.37	8.0E-60	11428649.1	NT	Homo sapiens S-antigen; retina and pineal gland (erectin) (SAG), mRNA
9826	22675	36130	1.02	8.0E-60	-	114177118.1	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
9826	22675	36131	1.2	8.0E-60	114177118.1	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
10338	23659	37373	0.66	8.0E-60	5433997.1	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
11182	24138	37670	4.95	8.0E-60	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
11182	24138	37671	4.95	8.0E-60	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
755	13816	26760	30.34	7.0E-60	AF055066.1	NT	Homo sapiens MHC class 1 region
756	13816	26760	69.13	7.0E-60	AF055066.1	NT	Homo sapiens MHC class 1 region
819	13874	26822	1.17	7.0E-60	4604634.1	NT	Homo sapiens interleukin 10 receptor, beta (IL10RB), mRNA
2138	15155	28170	1.04	7.0E-60	AF077188.1	NT	Homo sapiens eukin 4A (CUL4A) mRNA, complete cds

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2796	15788	28806	1.18	7.0E-60	AB011183.1	NT	Homo sapiens mRNA for KIAA0381 protein, partial cds
4208	17237	30124	3.1	7.0E-60	4805488	NT	Homo sapiens ornithine decarboxylase 1 (ODC1) mRNA
4606	17827	30519	0.72	7.0E-60	A7284750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
9762	22703	38161	3.69	7.0E-60	H68041.1	EST_HUMAN	Y1204.1 Scores fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:205087 5' similar to contains LTR5 repetitive element
11692	24657	38235	1.57	7.0E-60	H58041.1	EST_HUMAN	Y1204.1 Scores fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:205087 5' similar to contains LTR5 repetitive element
2189	15204	28224	1.01	6.0E-60	DE98497.2	EST_HUMAN	U01689/5191 NIH MGCC 89 Homo sapiens cDNA clone IMAGE:3886069 3'
8198	21094	34493	0.85	6.0E-60	1142735	NT	Y1209.1 Scores fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:201833 5' similar to contains OPR repetitive element
8780	21747		8.33	8.0E-60	H52456.1	EST_HUMAN	W52407.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2359212 3'
84	13200	26123	1.13	5.0E-60	A1807917.1	EST_HUMAN	W52407.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2359212 3'
84	13200	26124	1.13	5.0E-60	A1807917.1	EST_HUMAN	W52407.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2359212 3'
2244	15268	28284	1.25	4.0E-60	AW 503208.1	EST_HUMAN	U1HF-BND-akt-g-07-0-UI.1 NIH MGCC 50 Homo sapiens cDNA clone IMAGE:3078348 5'
2244	15268	28285	1.25	4.0E-60	AW 503208.1	EST_HUMAN	U1HF-BND-akt-g-07-0-UI.1 NIH MGCC 50 Homo sapiens cDNA clone IMAGE:3078348 5'
2984	16042		1.31	4.0E-60	AA236037.1	EST_HUMAN	EST11498 Uterus Homo sapiens cDNA 5' end similar to similar to retrovirus-related pol
7576	20538	33897	0.91	4.0E-60	BF166068.1	EST_HUMAN	H8105.x1 NCL CGAP Kid1 Homo sapiens cDNA clone IMAGE:3134913 3' similar to SW:RHOP_MOUSE
9422	22446		0.59	4.0E-60	AL193278.2	NT	Q61085 GTP-RHO BINDING PROTEIN 1
11628	24566	38127	1.7	4.0E-60	11433597	NT	Homo sapiens chromosome 21 segment HS21C078
11628	24566	38128	1.7	4.0E-60	11433597	NT	Homo sapiens v-rat-1 murine leukemia viral oncogene homolog 1 (RAF1), mRNA
1876	14901	27900	4.44	3.0E-60	BE562611.1	EST_HUMAN	Homo sapiens v-rat-1 murine leukemia viral oncogene homolog 1 (RAF1), mRNA
1876	14901	27900	4.44	3.0E-60	BE562611.1	EST_HUMAN	601336446F1 NIH MGCC 44 Homo sapiens cDNA clone IMAGE:3690395 5'
1885	14910	27901	1.88	3.0E-60	6031190	NT	601336446F1 NIH MGCC 44 Homo sapiens cDNA clone IMAGE:3690395 5'
4485	17510	30398	2.27	3.0E-60	AJ271735.1	NT	Homo sapiens profilin (PHB) mRNA
5452	18554	31456	2.11	3.0E-60	BF365143.1	EST_HUMAN	Homo sapiens Xq pseudautosomal region; segment 1/2
5724	18818	31597	2.11	3.0E-60	AW838196.1	EST_HUMAN	QV4-NT116-250900-423-6T NNT1149 Homo sapiens cDNA
7143	18375	31263	0.95	3.0E-60	A792814.1	EST_HUMAN	RC3-L10023-200100-012-407 L10023 Homo sapiens cDNA
8745	27173	35136	5.22	3.0E-60	5174844	NT	680111.v3 NCL CGAP Kid3 Homo sapiens cDNA clone IMAGE:1834063 5' similar to SW:UDP_MOUSE
8745	27173	35136	5.22	3.0E-60	5174844	NT	P28824 URIDINE PHOSPHORYLASE
8930	21896	35324	0.98	3.0E-60	A1040235.1	EST_HUMAN	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA
9094	22060	35469	4.2	3.0E-60	5174644	NT	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10017	22944	36411	0.42	3.0E-60	BF102612.1	EST_HUMAN	801846227F1 NIH_MGC_60 Homo sapiens cDNA clone IMAGE:3930980 5'
12970	25871		1.53	3.0E-60	AA485286.1	EST_HUMAN	ad37004.F1 Stradiene lung (4637210) Homo sapiens cDNA clone IMAGE:940181 5' similar to contains LTR10.11 LTR10 repetitive element.
33	13153	26054	1.76	2.0E-60	AY008285.1	NT	Homo sapiens soluble carrier (SLC25A18) mRNA, complete cds; nuclear gene for mitochondrial product
1421	14454	27428	2.78	2.0E-60	U11694.1	NT	H sapiens 41kDa protein kinase related to rat ERK2
1734	14764	27747	1.34	2.0E-60	M24603.1	NT	Human bar protein mRNA, 5' end
1743	14773	27758	1.01	2.0E-60	AY008285.1	NT	Homo sapiens soluble carrier (SLC25A18) mRNA, complete cds; nuclear gene for mitochondrial product
2492	15495	28520	1.76	2.0E-60	AW380450.1	EST_HUMAN	RC1-HT0268-031269-012-102 HT0268 Homo sapiens cDNA
2614	15612	28637	1.38	2.0E-60	7857229	NT	Homo sapiens interleukin 17 receptor (IL17R), mRNA
2721	15715	28733	0.94	2.0E-60	AW978005.1	EST_HUMAN	EST390114 IMAGE: resequences, MAGO Homo sapiens cDNA
3592	16637	28537	1.49	2.0E-60	4757867	NT	Homo sapiens vhr murine sarcoma viral oncogene homolog B1 (BRAF) mRNA
3935	16975	28888	0.83	2.0E-60	AF231919.1	NT	Homo sapiens chondroectodermal 21 unknown mRNA
4151	17182		0.95	2.0E-60	BF513458.1	EST_HUMAN	U1H-BW1-ams-e-05-O-U1 s1 NCI CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3070952 3'
6433	19499	32752	0.9	2.0E-60	AJ791952.1	EST_HUMAN	nm011215 NCI CGAP_Go8 Homo sapiens cDNA clone IMAGE:1076495 5' similar to contains THR11 THR repetitive element.
6840	19598	32974	1.49	2.0E-60	AF004877.1	NT	Homo sapiens pro-alpha 2(I) collagen (COL1A2) gene, complete cds
6874	19927	33224	0.92	2.0E-60	AF157476.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
7027	18359	31279	2.05	2.0E-60	4503044	NT	Homo sapiens corticotropin releasing hormone receptor 2 (CRHR2) mRNA
7027	18359	31280	2.05	2.0E-60	4503044	NT	Homo sapiens corticotropin releasing hormone receptor 2 (CRHR2) mRNA
7317	20283	33630	6.5	2.0E-60	AA311159.1	EST_HUMAN	EST181849 Jurkat T-cells V Homo sapiens cDNA 5' end similar to similar to prathymosin, alpha
7317	20288	33631	6.8	2.0E-60	AA311159.1	EST_HUMAN	EST181849 Jurkat T-cells V Homo sapiens cDNA 5' end similar to similar to prathymosin, alpha
7434	20401	33755	0.53	2.0E-60	AJ305124.1	EST_HUMAN	923d08.xt NCI CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2056185 3' similar to SW:GALR_RAT
7894	20837		1.08	2.0E-60	BF512808.1	EST_HUMAN	U1H-BW1-ams-e-02-O-U1 s1 NCI CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071210 3'
8338	21307	34722	1.99	2.0E-60	X85597.1	EST_HUMAN	H515BES1 human adult testis Homo sapiens cDNA clone CALI TEST15
9219	22185	35678	4.88	2.0E-60	L36033.1	NT	Human pre-B cell stimulating factor homologue (SDF1b) mRNA, complete cds
10337	23261	36740	2.2	2.0E-60	11591659	NT	Homo sapiens sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaforin) 6A (SEMA6A), mRNA
10337	23261	36741	2.2	2.0E-60	11591659	NT	Homo sapiens sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaforin) 6A (SEMA6A), mRNA
12094	24965	35861	1.9	2.0E-60	AW761191.1	EST_HUMAN	CNC-C10013-290666-017-103 C10013 Homo sapiens cDNA
12094	24965	35862	1.9	2.0E-60	AW761191.1	EST_HUMAN	CNC-C10013-290666-017-103 C10013 Homo sapiens cDNA

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12847	25330		1.38	2.0E-60	1418192	NT	Homo sapiens non-histone chromosome protein 2 (S. cerevisiae) like 1 (NHP2L1), mRNA
12771	26900		1.82	2.0E-60	AF068757.1	NT	Homo sapiens somatostatin receptor subtype 3 (SSTR3) gene, 5' flanking region and partial cds
12773	25411		5.64	2.0E-60	11418068	NT	Homo sapiens similar to HSPC022 protein (H. sapiens) (LOC833504), mRNA
12789	26421		2.36	2.0E-60	AB011389.1	NT	Homo sapiens gene for AF-6, complete cds
523	13594	26512	0.97	1.0E-60	BE178566.1	EST_HUMAN	PMAS-HIT0605-270200-001-e03 HIT0605 Homo sapiens cDNA
3920	16960	26973	1.46	1.0E-60	AU143389.1	EST_HUMAN	AU143389 Y79A1 Homo sapiens cDNA clone Y79A1001854.5
4693	18008	30896	1.34	1.0E-60	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
8280	21249	34961	0.98	1.0E-60	BE064410.1	EST_HUMAN	RC4-BT0311-141199-011-H06 BT0311 Homo sapiens cDNA
9108	22074		3.08	1.0E-60	AA244041.1	EST_HUMAN	nc041212 NC1 CGAP_P1 Homo sapiens cDNA clone IMAGE:1007182 similar to contains L1.1 L1 repetitive element:
9134	22100	35626	1.38	1.0E-60	AV75081.1	EST_HUMAN	AV75081 TP Homo sapiens cDNA clone TPGAED05.5
1101	14146	27095	1.85	9.0E-61	AU119344.1	EST_HUMAN	AU119344 HEMBAT Homo sapiens cDNA clone HEMBA1005583.5
9061	22027	35450	0.46	9.0E-61	4895546	NT	Homo sapiens PHD finger protein 2 (PHF2) mRNA
9051	22027	35451	0.46	9.0E-61	4895546	NT	Homo sapiens PHD finger protein 2 (PHF2) mRNA
2678	15674	28694	1.17	8.0E-61	AW006478.1	EST_HUMAN	w09510.x1 NC1 CGAP_C03 Homo sapiens cDNA clone IMAGE:2506555.3
2678	15674	28695	1.17	8.0E-61	AW006478.1	EST_HUMAN	w09510.x1 NC1 CGAP_C03 Homo sapiens cDNA clone IMAGE:2506555.3
2662	16020		1.66	8.0E-61	X57147.1	NT	Human endogenous retrovirus pHF.1 (ERV9)
8227	21196	34604	0.73	8.0E-61	AA583988.1	EST_HUMAN	nt58308 at NC1 CGAP_Lart1 Homo sapiens cDNA clone IMAGE:1088216.3
11926	24607	38400	1.47	8.0E-61	H71225.1	EST_HUMAN	ye12609 r1 Soares fetal liver spleen 1N1LS Homo sapiens cDNA clone IMAGE:214600.5 similar to SP:CA011.1 CE00109 OVARIAN PROTEIN:
11926	24607	38401	1.47	8.0E-61	H71225.1	EST_HUMAN	SP:CA011.1 CE00109 OVARIAN PROTEIN:
128	13234	26163	0.67	7.0E-61	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
128	13234	26164	0.67	7.0E-61	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
265	13361	26285	2.61	6.0E-61	BE409310.1	EST_HUMAN	601300938F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480.5
812	13870	26819	2.17	6.0E-61	BE409310.1	EST_HUMAN	601300938F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480.5
1324	14369	27326	13.5	6.0E-61	AF119860.1	NT	Homo sapiens PRG2014 mRNA, complete cds
1634	14666	27642	0.3	6.0E-61	BE257400.1	EST_HUMAN	60110228F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350145.5
1655	14687	27662	2.32	6.0E-61	AA596033.1	EST_HUMAN	nt68109 st NC1 CGAP_Lart1 Homo sapiens cDNA clone IMAGE:1088697.3
2137	15154	28169	0.91	6.0E-61	AY008285.1	NT	Homo sapiens solute carrier (SLC25A18) mRNA, complete cds; nuclear gene for mitochondrial product
3317	16370	29290	8.07	6.0E-61	AU130689.1	EST_HUMAN	AU130689 NT25P3 Homo sapiens cDNA clone NT25P3001263.5
6147	19222	32452	3.08	6.0E-61	S76249.1	NT	lq-beta152-cd79a (alternatively spliced) [human, B cells, mRNA Perla, 375 nt]
7565	20528	33987	1.53	6.0E-61	U24488.1	NT	Human autosomal dominant polycystic kidney disease protein 1 (PKD1) gene

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7678	20822	34108	1.87	6.0E-61	AF035737.1	NT	Homo sapiens general transcription factor 21 (GTF2I) mRNA, complete cds
221	13321	28246	1.14	5.0E-61	8822860	NT	Homo sapiens hypothetical protein FLJ11316 (FLJ11316). mRNA
221	13321	28247	1.14	5.0E-61	8822860	NT	Homo sapiens hypothetical protein FLJ11316 (FLJ11316). mRNA
1988	14718	27659	3.18	5.0E-61	4509008	NT	Homo sapiens hypothetical protein phosphatase 1, regulatory subunit 10 (PPP1R10) mRNA
3049	18109	26020	1.96	5.0E-61	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
4008	17405		1.87	5.0E-61	AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
1174	14803	27768	1.17	4.0E-61	AU140307.1	EST_HUMAN	AU140307 PLAGE2 Homo sapiens cDNA clone PLAGE2003032 5'
5913	18866	32190	0.51	4.0E-61	7691637	NT	Homo sapiens DKFZP9685023 protein (DKFZP9685023). mRNA
12348	25143		2.27	4.0E-61	AV731140.1	EST_HUMAN	AV731140 HTF Homo sapiens cDNA clone HTFAR801 5'
8764	21731	35154	0.65	3.0E-61	AF150190.1	EST_HUMAN	AF150190 Human mRNA from cd34+ stem cells Homo sapiens cDNA clone C8DAG804
489	13571	26493	1.74	2.0E-61	8822828	NT	Homo sapiens hypothetical protein FLJ11026 (FLJ11026). mRNA
1217	14255	27213	3.4	2.0E-61	BE168410.1	EST_HUMAN	QV3-HT0513-360400-147-401 HT0513 Homo sapiens cDNA
1217	14255	27214	3.4	2.0E-61	BE168410.1	EST_HUMAN	QV3-HT0513-360400-147-401 HT0513 Homo sapiens cDNA
1674	14706	27694	1.34	2.0E-61	NS3039.1	EST_HUMAN	g6-L25444 60S RIBOSOMAL PROTEIN L35A (HUMAN);
2548	15646		1.25	2.0E-61	NS3897.1	EST_HUMAN	g6-L25444 60S RIBOSOMAL PROTEIN L35A (HUMAN);
6966	16628	32861	0.92	2.0E-61	11426106	NT	Homo sapiens ATPase H+ transpoting, lysosomal (vacuolar proton pump) non-catalytic accessory protein
9369	22334	35795	1.07	2.0E-61	AV694317.1	EST_HUMAN	AV694317 GK-Homo sapiens cDNA clone GKOE036 5'
9620	22741		1.27	2.0E-61	AB011108.1	NT	Homo sapiens mRNA for KIA0636 protein, partial cds
10282	23207	36632	1.61	2.0E-61	AW500259.1	EST_HUMAN	U-HF-BNO-alc-f-12-0-U1 NIH_MGC_30 Homo sapiens cDNA clone IMAGE:3078774 5'
10512	23534	37031	2.88	2.0E-61	11421778	NT	Homo sapiens polymerase (RNA) III (DNA directed) (RPOC39). mRNA
11220	24183		6.91	2.0E-61	11419720	NT	Homo sapiens fibronectin protein L44 (RPL44). mRNA
435	13509		1.85	2.0E-61	AL163203.2	NT	QV0-BNO042-170300-162-110 BNO042 Homo sapiens cDNA
774	13833	26779	0.96	1.0E-61	5453929	NT	Homo sapiens chromosome 21 segment HS21C003
1784	14813		0.95	1.0E-61	U32657.1	NT	Homo sapiens origin recognition complex, subunit 2 (yeast homolog)-like (ORC2L) mRNA
1878	14900	27689	4.89	1.0E-61	6005883	NT	Homo sapiens origin recognition complex, subunit 2 (yeast homolog)-like (ORC2L) mRNA
2206	15221	28241	1.52	1.0E-61	AW827281.1	EST_HUMAN	Homo sapiens zona pellucida glycoprotein 3A (sperm receptor) (ZP3A). mRNA
2948	15908	29831	1.58	1.0E-61	BE336963.1	EST_HUMAN	hm11b69.yf. NO1 CGAP US Homo sapiens cDNA clone IMAGE:2653969 5' similar to contains element MSR1 (repetitive element).
3387	16496	29393	0.87	1.0E-61	7662318	NT	601723513F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614667 5'
4288	17317	30198	1	1.0E-61	M68940.1	NT	Homo sapiens KIAA0808 gene product (KIAA0808). mRNA
4468	17494	30331	1.02	1.0E-61	4759249	NT	Human monomelic acidase A (MAOA) mRNA, complete cds
							Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4468	17494	30382	1.02	1.0E-61	4756249	NT	Homo sapiens TRAF family member-associated NFkB activator (TANK) mRNA
4893	17910	30798	9.18	1.0E-61	AW28181.1	EST_HUMAN	U-H-BWO-glt-5-08-0-UI.s1 NCI CGAP Subd Homo sapiens cDNA clone IMAGE:2732871 3'
4893	17910	30800	9.18	1.0E-61	AW28181.1	EST_HUMAN	U-H-BWO-glt-5-08-0-UI.s1 NCI CGAP Subd Homo sapiens cDNA clone IMAGE:2732871 3'
4971	17986	30876	0.94	1.0E-61	7705988	NT	Homo sapiens flavohemoglobin b5+b6R (LOC51187), mRNA
4971	17988	30877	0.94	1.0E-61	7705988	NT	Homo sapiens flavohemoglobin b5+b6R (LOC51187), mRNA
5467	18599	31479	0.68	1.0E-61	M76423.1	NT	H sapiens carbonic anhydrase VII (CA VII) gene, exons 4, 5, 6, and 7, and complete cds
5773	18865	32046	0.74	1.0E-61	7962303	NT	Homo sapiens KIAA0783 gene product (KIAA0783), mRNA
5844	19059	32267	1.02	1.0E-61	11416891	NT	Homo sapiens survival of motor neuron 1, telomeric (SMN1), mRNA
7085	20019	33321	7.63	1.0E-61	M30135.1	NT	Human P40 T-cell and mast cell growth factor (HP40) gene, complete cds
7298	20270	33605	0.95	1.0E-61	4759171	NT	Homo sapiens SC35-interacting protein 1 (SRRP129), mRNA
7397	20365	33717	1.58	1.0E-61	8623130	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
7397	20365	33718	1.58	1.0E-61	8623130	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
8471	21440	34858	4.16	1.0E-61	11034840	NT	Homo sapiens growth hormone releasing hormone (GHRH), mRNA
8656	21624	35044	3.41	1.0E-61	AF224669.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
9637	22581	36044	2.94	1.0E-61	AW698726.1	EST_HUMAN	MRO.BN0070-040400-010-001 BN0070 Homo sapiens cDNA
9712	22865	36122	0.99	1.0E-61	11416280	NT	Homo sapiens cadherin 18 (CDH18), mRNA
10389	23311	36760	5.98	1.0E-61	11428882	NT	Homo sapiens KIAA0871 protein (KIAA0871), mRNA
10988	23964	37488	3.38	1.0E-61	11425578	NT	Homo sapiens actinin, alpha 4 (ACTN4), mRNA
11661	24597	38457	3.59	1.0E-61	BE439409.1	EST_HUMAN	HTM1-025F1 HTM1 Homo sapiens cDNA
12263	25546	31433	4.15	1.0E-61	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12263	25546	31434	4.15	1.0E-61	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12952	25535	31761	23.14	1.0E-61	M20809.1	NT	Human kappa-immunoglobulin gamma pseudogene (Chr1) variable region (subgroup V kappa I)
12942	25521	31711	10.09	1.0E-61	11418127	NT	Homo sapiens GTP binding protein 1 (GTPBP1), mRNA
10722	23644	37137	2.13	9.0E-62	BE064388.1	EST_HUMAN	RC4-BT0310-110300-015-F10 BT0310 Homo sapiens cDNA
4581	17603	30500	1.04	8.0E-62	AA830420.1	EST_HUMAN	cc89H1.1 s1 NCI CGAP GC81 Homo sapiens cDNA clone IMAGE:1354725 3' similar to SW:POL_MLYRK
1109	14163	27103	1.9	7.0E-62	AW714334.1	EST_HUMAN	P31795 POL POLYPROTEIN;
3517	16963	29488	0.7	7.0E-62	P17480	SWISSPROT	NUCLEOLAR TRANSCRIPTION FACTOR 1 (UPS TREM BINDING FACTOR 1) (UBF-1)
6023	19106	32309	1.13	7.0E-62	11427955	EST_HUMAN	(AUTOANTIGEN NOR-90)
11678	24644	38221	9.39	7.0E-62	A1206581.1	EST_HUMAN	q55B04.11 Scavins, testis, NHT Homo sapiens cDNA clone IMAGE:1889150 3' similar to TR:O15103
3012	16070		1.49	8.0E-62	U06410.1	NT	Human zinc finger protein ZNF131 mRNA, partial cds

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Probe Seq ID NO.	Exon Seq ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3395	16444		4.9	6.0E-62	11416255	NT	Human sapiens CGI-56 protein (CGI-56), mRNA
7887	20831	34209	3.27	6.0E-62	A1762801.1	EST_HUMAN	w04d02.x1 NC1 CGAP_CLI1 Homo sapiens cDNA clone IMAGE:2389251 3'
7887	20831	34210	3.27	6.0E-62	A1762801.1	EST_HUMAN	w04d02.x1 NC1 CGAP_CLI1 Homo sapiens cDNA clone IMAGE:2389251 3'
8422	21391		0.72	6.0E-62	AW501124.1	EST_HUMAN	U1HF-BP0p-614-09-4-J11 NIH_MGC_S1 Homo sapiens cDNA clone IMAGE:3072833 5'
8500	21568	34884	1.4	6.0E-62	11431139	NT	Human sapiens CGI-18 protein (LGD31008), mRNA
9709	22662	36118	4.02	6.0E-62	AW814393.1	EST_HUMAN	NR3-510203-130100-025-408 ST02035 cDNA
416	13469	26424	2.26	5.0E-62	A1505028.1	EST_HUMAN	w051607.x1 NC1 CGAP_L228 Homo sapiens cDNA clone IMAGE:2547204 3' similar to SW:G695_HUMAN
2416	15423	28446	3.61	5.0E-62	AJ271735.1	NT	Q08378 GOLGIN G5, contains element MER22 repetitive element;
15423	28447	28447	3.61	5.0E-62	AJ271735.1	NT	Human sapiens Xq pseudocautosomal region, segment 1/2
2596	15497	28615	1.43	5.0E-62	U39487.1	NT	Human xanthine dehydrogenase/oxidase mRNA, complete cds
2596	15597	28616	1.43	5.0E-62	U39487.1	NT	Human xanthine dehydrogenase/oxidase mRNA, complete cds
3430	16478	29397	2.95	5.0E-62	4508768	NT	Human sapiens ryanodine receptor 3 (RYR3) mRNA
4355	17362	30264	1.91	5.0E-62	AA431063.1	EST_HUMAN	z07b069.a1 Soares, testis_NHT Homo sapiens cDNA clone IMAGE:782344 3' similar to SW:NRDC_RAT
4589	17611		1.1	5.0E-62	AW905897.1	EST_HUMAN	P47245 NAROL1.YS1N
21860	18160	35203	0.84	5.0E-62	4508738	NT	RC5-NT1089-100500-021-H03 NT1089 Homo sapiens cDNA
2828	24534	38082	8.13	5.0E-62	AW410887.1	EST_HUMAN	Human sapiens ryanodine receptor 3 (RYR3) mRNA
11596	24534	38090	2.18	5.0E-62	11425574	NT	h07g08.x1 NIH_MGC_T7 Homo sapiens cDNA clone IMAGE:2661616 5'
11596	24534	38091	2.18	5.0E-62	11425574	NT	Human sapiens muscle specific gene (M9), mRNA
941	13888	26853	2.29	4.0E-62	AW161479.1	EST_HUMAN	aw17d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104
841	13898	26854	2.29	4.0E-62	AW161479.1	EST_HUMAN	ATP SYNTHASE COUPLING FACTOR 8, MITOCHONDRIAL PRECURSOR (HUMAN);
842	13898	26853	1.27	4.0E-62	AW161479.1	EST_HUMAN	aw17d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104
842	13898	26854	1.27	4.0E-62	AW161479.1	EST_HUMAN	ATP SYNTHASE COUPLING FACTOR 8, MITOCHONDRIAL PRECURSOR (HUMAN);
1459	14491		1	4.0E-62	AA311281.1	EST_HUMAN	aw17d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104
2464	15468	28491	2.85	4.0E-62	A1627800.1	EST_HUMAN	aw17d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104
2464	15468	28492	2.85	4.0E-62	A1627800.1	EST_HUMAN	ATP SYNTHASE COUPLING FACTOR 8, MITOCHONDRIAL PRECURSOR (HUMAN);
2410	16450		6.85	4.0E-62	4657607	NT	EST182043 Jurkat T-cells Y Homo sapiens cDNA 3' end
							wf12b08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2550359 3' similar to gb:X57139_mn1 HISTONE H2B.2 (HUMAN);
							aw17b08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2550359 3' similar to gb:X57139_mn1 HISTONE H2B.2 (HUMAN);
							Human sapiens keratin 18 (KRT18) mRNA

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Description
6032	16115	32318	1.63	4.0E-62	4506978	NT	Homo sapiens adult carrier family 13 (sodium-dependent dicarboxylate transporter), member 2 (SLC13A2) mRNA
6429	19495	32748	2.53	4.0E-62	11420654	NT	Homo sapiens ubiquitin specific protease 9, X chromosome (Drosophila fat facets related) (USP9X), mRNA
7377	20347	33598	2.08	4.0E-62	11421041	NT	Homo sapiens phosphatidylylprophosphate synthetase 2 (PRPS2), mRNA
7896	20839	34219	2.59	4.0E-62	7857057	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
7896	20839	34220	2.59	4.0E-62	7857057	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
8511	21479	34893	0.93	4.0E-62	11426973	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1), mRNA
9108	22164	35594	5.95	4.0E-62	AB033089.1	NT	Homo sapiens mRNA for KIAA1263 protein, partial cds
11353	24303	37830	3.05	4.0E-62	Z78766.1	NT	H. sapiens flow-sorted chromosome 6 HindIII fragment, SC9pA16D3
11353	24303	37831	3.05	4.0E-62	Z78766.1	NT	H. sapiens flow-sorted chromosome 6 HindIII fragment, SC9pA16D3
11598	24596	38093	1.57	4.0E-62	AW023559.1	EST_HUMAN	d5gD4.Y7 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2487751 5'
12287	25090	38176	3.39	4.0E-62	11418036	NT	Homo sapiens putative nuclear protein (HRHFB2122), mRNA
12491	25803		1.3	4.0E-62	11418192	NT	Homo sapiens non-histone chromosome protein 2 (S. cerevisiae)-like 1 (NHP2L1), mRNA
12491	25905	31708	1.96	4.0E-62	11418322	NT	Homo sapiens cathepsin EGF LAG seven pass G-type receptor 1 (CELSR1), mRNA
12924	25500	31703	19.77	4.0E-62	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12924	25500	31704	19.77	4.0E-62	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12977	25542	31717	3.07	4.0E-62	11430490	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
76	13192	28114	0.68	3.0E-62	4557794	NT	Homo sapiens neurofibromin 2 (bilateral acoustic neuroma) (NF2), mRNA
3059	16116	29029	1.02	3.0E-62	AB040909.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
3059	16116	29030	1.02	3.0E-62	AB040909.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
3712	16755	29689	3.52	3.0E-62	X52858.1	NT	Human cytoplasmic-related processed pseudogene
8985	12181	35272	4.65	3.0E-62	AF032733.1	EST_HUMAN	w63304.x7 NC1_CGAP_K611 Homo sapiens cDNA clone IMAGE:2266003 3' similar to contains THR12 THR repetitive element;
1235	14272	27322	2.76	2.0E-62	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21O084
8142	21079	34479	0.88	2.0E-62	AA307480.1	EST_HUMAN	EST178374 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end
9127	22083	35520	4.47	2.0E-62	BF329911.1	EST_HUMAN	RCO-BN0284-300800-031-c05 BN0284 Homo sapiens cDNA
9127	22083	35521	4.47	2.0E-62	BF329911.1	EST_HUMAN	RCO-BN0284-300800-031-c05 BN0284 Homo sapiens cDNA
10533	23455		4.96	2.0E-62	AF224699.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
11966	24873		20.6	2.0E-62	BF330676.1	EST_HUMAN	QV4-BT0257-091196-017-c03 BT0257 Homo sapiens cDNA
1045	14091	27044	1.88	1.0E-62	AF248540.1	NT	Homo sapiens intercalin 2 (SHD1B) mRNA, complete cds
1347	14590	27552	12.74	1.0E-62	L78810.1	NT	Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top Hit) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2351	15360	28362	1.1	8.0E-63	4557734	NT	Homo sapiens monoamine oxidase A (MAOA), nuclear gene encoding mitochondrial protein, mRNA
2383	15391	28416	2.49	8.0E-63	6031810	NT	Homo sapiens IL2-inducible T-cell kinase (ITK), mRNA
3475	16521	29443	3.42	8.0E-63	AF198349.1	NT	Gallus gallus Dec2 protein (Dec2), mRNA, complete cds
3475	16521	29444	3.42	8.0E-63	AF198349.1	NT	Gallus gallus Dec2 protein (Dec2), mRNA, complete cds
4294	17323	30203	3.75	8.0E-63	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
529	13682		1.67	7.0E-63	AB17137.1	EST_HUMAN	Wnt5b1.1X1 NCL CGAP_P11 Homo sapiens cDNA clone IMAGE:2436908 3'
5412	18515		23.22	6.0E-63	AA420803.1	EST_HUMAN	ribosomal protein (HUMAN);
8229	22162	35022	0.63	5.0E-63	11528464	NT	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA
3332	16383	26305	0.7	4.0E-63	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
3821	16881	29764	1.16	4.0E-63	AB014607.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
3821	16881	29765	1.16	4.0E-63	AB014607.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
6988	19648	32817	2.92	4.0E-63	AW750372.1	EST_HUMAN	CM3-BT0595-190100-072-409 BT0595 Homo sapiens cDNA
6988	19648	32818	2.92	4.0E-63	AW750372.1	EST_HUMAN	CM3-BT0595-190100-072-409 BT0595 Homo sapiens cDNA
11467	24410	37958	2.12	4.0E-63	AW134709.1	EST_HUMAN	U1H-B11-aba-q-02-Q-U1.s1 NCL CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2712482 3'
11467	24410	37959	2.12	4.0E-63	AW134709.1	EST_HUMAN	U1H-B11-aba-q-02-Q-U1.s1 NCL CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2712482 3'
13023	25571		1.48	4.0E-63	AA629066.1	EST_HUMAN	z84b01.s1 Soares, testis, NHT Homo sapiens cDNA clone IMAGE:744649 3' similar to contains L1, L1 repetitive element;
1952	14875	27675	2.52	3.0E-63	AB018260.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
2790	15782	26798	1.85	3.0E-63	J00310.1	NT	Human Met-RNA-1 gene 1
2832	14280	27243	15.82	3.0E-63	605563	NT	Homo sapiens zinc finger protein 144 (Maf-18) (ZNF144), mRNA
6619	16977	32664	32.28	3.0E-63	11546810	NT	Homo sapiens hepaticellular carcinoma antigen gene 620 (LOC63828), mRNA
10064	22991	39460	0.51	3.0E-63	BE876158.1	EST_HUMAN	601485656F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3888253 5'
10064	22991	39461	0.51	3.0E-63	BE876158.1	EST_HUMAN	601485656F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3888253 5'
193	13294	26221	1.91	2.0E-63	U07804.1	NT	Human DNA topoisomerase I mRNA, partial cds
199	13300	26226	1.91	2.0E-63	4855226	NT	Homo sapiens eyes absent (Drosophila) homolog 2 (EYA2), mRNA
488	13570		3.06	2.0E-63	4557624	NT	Homo sapiens glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), catalytic (72 kD) (GLCLO)
827	13685	26838	1.7	2.0E-63	7657042	NT	Homo sapiens Down syndrome candidate region 1 (DSOR1), mRNA
1599	14802	27577	4.18	2.0E-63	AB030388.1	NT	Homo sapiens RHCE mRNA for Rh blood CE group antigen polypeptide, complete cds
1599	14802	27578	4.18	2.0E-63	AB030388.1	NT	Homo sapiens RHCE mRNA for Rh blood CE group antigen polypeptide, complete cds
1781	14810	27768	1.33	2.0E-63	BE410739.1	EST_HUMAN	601301627F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636103 5'
3298	16351	29271	2.77	2.0E-63	AF106718.1	NT	Homo sapiens chromosome 3 subtelomeric region

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO	Exon SEQ ID NO	ORF SEQ ID NO	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3925	16966	29878		2.0E-63	U39691.1	NT	Homo sapiens polycystic kidney disease-associated protein (PKD1) gene, complete cds
4801	17918	30810	0.95	2.0E-63	AF111467.2	NT	Homo sapiens Jun dimerization protein gene, partial cds; citos gene, complete cds; and unknown gene
5188	18197	31070	1.19	2.0E-63	BE148928.1	EST_HUMAN	QVAF10222-011199-018-01 HTO222 Homo sapiens cDNA
5232	18240	31112	1.59	2.0E-63	68012817	NT	Homo sapiens glutathionyl-peptide cyclidtransferase (glutathionyl cyclase) (GCPT), mRNA
5334	25635	31192	0.57	2.0E-63	11419429	NT	Homo sapiens similar to actinucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC68214), mRNA
5986	19071	32270	2.49	2.0E-63	BF373541.1	EST_HUMAN	QV1-F10170-040700-285-c85 F10170 Homo sapiens cDNA
5986	19071	32271	2.46	2.0E-63	BF373541.1	EST_HUMAN	QV1-F10170-040700-285-c85 F10170 Homo sapiens cDNA
6310	19381	32620	0.83	2.0E-63	11421940	NT	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B), mRNA
6310	19381	32621	0.83	2.0E-63	11421940	NT	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B), mRNA
							Human gamma T-cell receptor beta chain Dopamine-beta-hydroxylase-like, TRY1, TRY2, TRY3, TORBV27S1P, TORBV253A2N11, TORBV6S1A1T, TORBV7S1A1N2T, TORBV6S1A1T, TORBV13S3, TORBV6S7P, TORBV7S3A2T, TORBV13S2A1T, TORBV6S2A2P, TORBV7S2A1N4T, TORBV13S913S>
6660	19913	33209	1.23	2.0E-63	U66059.1	NT	Homo sapiens MIST mRNA, partial cds
6911	19663	33259	0.81	2.0E-63	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
6911	19663	33260	0.81	2.0E-63	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
7278	20012	33315	1.48	2.0E-63	5910368	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC56834), mRNA
7278	20012	33316	1.48	2.0E-63	5910368	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC56834), mRNA
8058	20995	34391	0.82	2.0E-63	AB046844.1	NT	Homo sapiens mRNA for KIAA1624 protein, partial cds
8878	21846	35287	3.8	2.0E-63	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
9409	22374	35810	1.08	2.0E-63	11420549	NT	Homo sapiens kinesin family member 3B (KIF3B), mRNA
9409	22374	35811	1.08	2.0E-63	11420549	NT	Homo sapiens kinesin family member 3B (KIF3B), mRNA
10299	23224	36707	0.98	2.0E-63	AL163216.2	NT	Homo sapiens chromosome 21 segment HS21C018
11096	24058	37592	13.74	2.0E-63	N78945.1	EST_HUMAN	2818b05.s1 Soares, fetal, lung, NDHL19W Homo sapiens cDNA clone IMAGE:302385 3' similar to gb:U17206.40S RIBOSOMAL PROTEIN S4 (HUMAN);
11127	24037	37614	2.32	2.0E-63	AF096810.1	NT	Homo sapiens neuron II-alpha gene, partial cds
11127	24037	37615	2.32	2.0E-63	AF096810.1	NT	Homo sapiens neuron II-alpha gene, partial cds
12381	25747	31515	0.02	2.0E-63	11418168	NT	Homo sapiens acetylase 2, mitochondrial (ACO2), mRNA
1516	14647	27618	0.93	1.0E-63	F08485.1	EST_HUMAN	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-zvd11
1516	14647	27619	0.93	1.0E-63	F08485.1	EST_HUMAN	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-zvd11
4370	17397	30276	3.4	1.0E-63	F08485.1	EST_HUMAN	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-zvd11
4370	17397	30277	3.4	1.0E-63	F08485.1	EST_HUMAN	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-zvd11
5428	18529	31408	1.86	1.0E-63	AJ271796.1	NT	Homo sapiens Xq pseudautosomal region; segment 22

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5864	18953	32140	97.84	1.0E-63	AW582286.1	EST_HUMAN	QV05T0215-069100-083-609 ST0215 Homo sapiens cDNA
6531	18954	32855	0.72	1.0E-63	AW461950.1	EST_HUMAN	UI-HB3-alkH-02-0-UI1.1 NCI CGAP Sub5 Homo sapiens cDNA clone IMAGE:3068763 3'
6531	18954	32856	0.72	1.0E-63	AW461950.1	EST_HUMAN	UI-HB3-alkH-02-0-UI1.1 NCI CGAP Sub5 Homo sapiens cDNA clone IMAGE:3068763 3'
8816	21763		2.94	1.0E-63	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
13020	29559		5.18	1.0E-63	AL163207.2	NT	Homo sapiens chromosome 21 segment HS21C047
6078	18159	32370	0.56	9.0E-64	AW401433.1	EST_HUMAN	UI-HF-BKO-sad-b-06-0-UI1.1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:3055163 5'
8199	21769	34579	4.61	9.0E-64	AW478186.1	EST_HUMAN	Imb007.X1 NCI CGAP KRT1 Homo sapiens cDNA clone IMAGE:2161625 3'
1048	14094		2.71	8.0E-64	BE280798.1	EST_HUMAN	601165232F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3139038 5'
6263	19336	32569	3.25	8.0E-64	BE385755.1	EST_HUMAN	601509096F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3910338 5'
12187	25034		6.22	8.0E-64		NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
12238	25070		2.83	8.0E-64	T62651.1	EST_HUMAN	369502.11 Striatum lung (8637210) Homo sapiens cDNA clone IMAGE:79179 5'
3540	16586		0.8	7.0E-64	BE394321.1	EST_HUMAN	601311455F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3633204 5'
4763	17783	30678	3.2	7.0E-64	4507490	NT	Homo sapiens thimet oligopeptidase 1 (THOP1) mRNA
4763	17783	30679	3.2	7.0E-64	4507490	NT	Homo sapiens thimet oligopeptidase 1 (THOP1) mRNA
8096	21032	34430	0.64	7.0E-64	4506786	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA
10393	23315	38784	4.76	7.0E-64	Y07848.1	NT	Homo sapiens EWS, gpr22, rrp22 and barr22 genes
1735	14765	27748	3.86	6.0E-64	AI651992.1	EST_HUMAN	w651607.X1 NCI CGAP_G08 Homo sapiens cDNA clone IMAGE:2306220 3' similar to gb:M16182 BETA- GLUCURONIDASE PRECURSOR (HUMAN);
1735	14765	27749	3.86	6.0E-64	AI651992.1	EST_HUMAN	w651607.X1 NCI CGAP_G08 Homo sapiens cDNA clone IMAGE:2306220 3' similar to gb:M16182 BETA- GLUCURONIDASE PRECURSOR (HUMAN);
3139	16198	29105	4.25	8.0E-64	AW028445.1	EST_HUMAN	w173603.X1 NCI CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2529436 3'
3139	16198	29106	4.25	8.0E-64	AW028445.1	EST_HUMAN	w173603.X1 NCI CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2529436 3'
5703	18798	31673	2.43	8.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5703	18798	31674	2.43	8.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5725	18819	31998	6.33	6.0E-64	M13975.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds
5928	19015	32209	0.71	8.0E-64		NT	Homo sapiens calcitonin receptor (CALCR), mRNA
5928	19015	32210	0.71	8.0E-64		NT	Homo sapiens calcitonin receptor (CALCR), mRNA
7446	20412	33764	2.85	6.0E-64	11525879	NT	Homo sapiens mesenchyme homeo box 1 (MEOX1), mRNA
7446	20412	33765	2.85	6.0E-64	11525879	NT	Homo sapiens mesenchyme homeo box 1 (MEOX1), mRNA
9832	22635	36091	7.07	8.0E-64	11420555	NT	Homo sapiens acyl-CoA synthetase (LOC55902), mRNA
9804	22800	36254	1.78	8.0E-64	AF274753.1	NT	Homo sapiens progressive ankylosis-like protein (ANK) mRNA, complete cds
10078	23003	36473	2.44	6.0E-64	S78475.1	NT	hK2 (human, brain, mRNA, 2715 nt)
11121	24081	37605	4.48	6.0E-64	11420167	NT	Homo sapiens stromal antigen 3 (STAG3), mRNA
11121	24081	37606	4.48	6.0E-64	11420167	NT	Homo sapiens stromal antigen 3 (STAG3), mRNA

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11358	16196	29105	1.73	6.0E-64	AW028445.1	EST_HUMAN	w113a03.x1 NCL CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2629436 3'
11358	16196	29106	1.73	6.0E-64	AW028445.1	EST_HUMAN	w113a03.x1 NCL CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2629436 3'
12398	25172	31618	9.28	6.0E-64	11529188	NT	Homo sapiens interleukin 10 receptor, beta (IL10RB), mRNA
821	13879	28628	3.68	5.0E-64	AF231918.1	NT	Homo sapiens chromosome 21 unknown mRNA
821	13879	28630	3.66	5.0E-64	AF231918.1	NT	Homo sapiens chromosome 21 unknown mRNA
931	14376	27345	0.93	5.0E-64	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
1224	14754	27740	1.7	5.0E-64	U89358.1	NT	Human (3)mb1 protein homolog mRNA, complete cds
2837	14509	27463	3.52	5.0E-64	7682205	NT	Homo sapiens KIAA0618 gene product (KIAA0618), mRNA
2837	14509	27484	3.52	5.0E-64	7682205	NT	Homo sapiens putative transcription factor CR53 (CR53) mRNA, partial cds
3983	17023	29634	7.14	5.0E-64	AF017433.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
4132	17164	30053	0.93	5.0E-64	AB020710.1	EST_HUMAN	801590383F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944397 5'
8125	21052	34460	0.97	4.0E-64	BE784607.1	EST_HUMAN	RC3-ST0197-120200-075-a03 ST0197 Homo sapiens cDNA
11164	24122	37651	1.55	4.0E-64	AW813783.1	EST_HUMAN	RC3-ST0197-120200-075-a03 ST0197 Homo sapiens cDNA
2208	15223	28243	0.32	3.0E-64	C18895.1	EST_HUMAN	C18895 Human placenta cDNA (TFIIIA) Homo sapiens cDNA clone GEN-596E02 5'
3268	16322	29244	0.72	3.0E-64	BE794381.1	EST_HUMAN	801589565F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943577 5'
3457	16503	29422	1.85	3.0E-64	AV711714.1	EST_HUMAN	AV711714 DCA Homo sapiens cDNA clone DCAAMC01 5'
3457	16503	29423	1.86	3.0E-64	AV711714.1	EST_HUMAN	AV711714 DCA Homo sapiens cDNA clone DCAAMC01 5'
6200	18274	32608	1.36	3.0E-64	Z28273.1	NT	H sapiens isoform 1 gene for L-type calcium channel, exon 28
6475	19540	32786	0.84	3.0E-64	AF503861.1	EST_HUMAN	U1HF-BP0P-skcc-95-Q-U1.T11 MGC_51 Homo sapiens cDNA
6841	19699	32975	2.78	3.0E-64	BF370090.1	EST_HUMAN	RC6-FN0019-290603-011-G11 FN0019 Homo sapiens cDNA
8809	21776	35201	1.78	3.0E-64	AF248583.1	NT	Homo sapiens gdi1 matrix protein GM130 (GOLGA2) mRNA, complete cds
8809	21776	35202	1.78	3.0E-64	AF248583.1	NT	Homo sapiens gdi1 matrix protein GM130 (GOLGA2) mRNA, complete cds
8840	21807	35225	2.73	3.0E-64	BE206521.1	EST_HUMAN	b672h12.yt NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3047975 5' similar to gb:L08085 DNAJ
8840	21807	35226	2.73	3.0E-64	BE206521.1	EST_HUMAN	b672h12.yt NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3047975 5' similar to gb:L08085 DNAJ
9782	22723	36177	1.54	3.0E-64	AL163246.2	NT	PROTEIN HOMOLOG 2 (HUMAN);
9782	22723	36178	1.54	3.0E-64	AL163246.2	NT	PROTEIN HOMOLOG 2 (HUMAN);
9872	22825	36276	0.8	3.0E-64	AW977384.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21Q046
9872	22825	36276	0.8	3.0E-64	AW977384.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21Q046
11868	24875	39471	1.87	3.0E-64	AL163272.2	NT	EST389493 MAGE ressequences, MAGE Homo sapiens cDNA
1080	14134	27066	0.96	2.0E-64	AA005940.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C027
1398	14432	27401	1.2	2.0E-64	4757701	NT	af05d08.31 Soares, testis, NHT Homo sapiens cDNA clone IMAGE:1031151 3'
							Homo sapiens eIF4E-like cap-binding protein (4EHP) mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2530	15533		2.05	2.0E-64	A1927030.1	EST_HUMAN	w037601.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2462281 3' similar to contains element L1 repetitive element;
2536	15538	28560	3.13	2.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
2536	15538	28561	3.13	2.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
3801	18841	29748	0.87	2.0E-64	AW1958145.1	EST_HUMAN	EST130215 IMAGE sequences, IMAGE Homo sapiens cDNA
3801	18841	29749	0.87	2.0E-64	AW1958145.1	EST_HUMAN	EST130215 IMAGE sequences, IMAGE Homo sapiens cDNA
6121	19199	32424	1.38	2.0E-64	AU124387.1	EST_HUMAN	AU124387 NT2RP2 Homo sapiens cDNA clone NT2RM2002113 5'
6370	19438	32681	1.38	2.0E-64	AF113708.1	NT	Homo sapiens angiotensin II (ANGII) mRNA, partial cds
6832	19690	32969	4.02	2.0E-64	BF69637.1	EST_HUMAN	602123474F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4280355 5'
6745	19800	33080	1.5	2.0E-64	A078397.1	EST_HUMAN	cc29103.x1 Soares total testis N22HF6 9w Homo sapiens cDNA clone IMAGE:1676717 3'
6859	19912	33208	3.88	2.0E-64	M77185.1	NT	Homo sapiens dopamine receptor D5 pseudogene 1, partial cds
8168	21043	34442	0.57	2.0E-64	11431054	NT	Homo sapiens axitin 2-binding protein 1 (A2BP1), mRNA
8164	21102	34501	0.56	2.0E-64	AV606785.1	EST_HUMAN	QV1-HT0413-010200-058-112 HT0413 Homo sapiens cDNA
9016	21982	35400	5.69	2.0E-64	11434008	NT	Homo sapiens lymphocyte cytosolic protein 1 (L-plestin) (LCP1), mRNA
9016	21982	35401	5.69	2.0E-64	11434008	NT	Homo sapiens lymphocyte cytosolic protein 1 (L-plestin) (LCP1), mRNA
9495	22459	35959	0.43	2.0E-64	11423198	NT	Homo sapiens hypodermal protein SSB167 (LOC57116), mRNA
9586	22548	35959	0.96	2.0E-64	AU132570.1	EST_HUMAN	AU132570 NT2RP4 Homo sapiens cDNA clone NT2RP4000109 5'
11114	24074	37597	3.74	2.0E-64	BF528114.1	EST_HUMAN	502042382F1 NCI CGAP_Brm67 Homo sapiens cDNA clone IMAGE:4180556 5'
11391	24337	37868	4.59	2.0E-64	A022911.1	EST_HUMAN	w081b06.x1 NCI CGAP_UH1 Homo sapiens cDNA clone IMAGE:2452211 3'
11391	24337	37867	4.59	2.0E-64	A022911.1	EST_HUMAN	w081b06.x1 NCI CGAP_UH1 Homo sapiens cDNA clone IMAGE:2452211 3'
11833	24716	35301	1.89	2.0E-64	BE269560.1	EST_HUMAN	601183078F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3542822 5'
12316	25122	31844	1.47	2.0E-64	BE269560.1	EST_HUMAN	601183078F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3542822 5'
12744	25393		3.54	2.0E-64	H55162.1	EST_HUMAN	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
258	13355	28279	1.48	1.0E-64	AF231919.1	NT	CHR220101 Chromosome 22 exon Homo sapiens cDNA clone C22_132 5'
1794	14823	27807	17.02	1.0E-64	A1929419.1	EST_HUMAN	au06601.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519136 3' similar to gb:121696_cds1 PROTHYMOSIN ALPHA (HUMAN); contains element MSRT1 repetitive element;
3024	18061	29504	0.61	1.0E-64	4507334	NT	Homo sapiens synaptobrevin 1 (SYN1), mRNA
3522	16598	29492	5.73	1.0E-64	AF106779.1	NT	Homo sapiens transcription factor IGHM enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes, complete cds, and L-type calcium channel α
3598	18643	29562	1.38	1.0E-64	AF228527.1	NT	Homo sapiens TRIAD3 mRNA, partial cds
3598	18643	29563	1.38	1.0E-64	AF228527.1	NT	Homo sapiens TRIAD3 mRNA, partial cds
3517	18957	29870	2	1.0E-64	6922626	NT	Homo sapiens hypodermal protein FLJ11026 (FLJ11026), mRNA

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10424	23346	38831	0.88	1.0E-64	AA042875.1	EST_HUMAN	2453308.at Soares_pregnant_uterus_NHHPU Homo sapiens cDNA clone IMAGE:486597.3
12288	25104		2.03	1.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
2284	15297	28321	1.64	9.0E-65	X88211.1	NT	H-sapiens DNA for endogenous retroviral like element
2284	15297	28322	1.64	9.0E-65	X88211.1	NT	H-sapiens DNA for endogenous retroviral like element
11893	24745		35.25	9.0E-65	BF330678.1	EST_HUMAN	QV4-B10257-081198-017-e03 B10257 Homo sapiens cDNA
							eu58407.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519005.3 similar to
11837	24720	33305	7.27	8.0E-65	AJ029244.1	EST_HUMAN	SIN_RL21_HUMAN P48778.805 RIBOSOMAL PROTEIN L21.;
10515	23437	38938	2.13	7.0E-65	BE081653.1	EST_HUMAN	QV2-B10635-240400-162-c02 B10635 Homo sapiens cDNA
1059	14105	27056	2.73	6.0E-65	AV721898.1	EST_HUMAN	AV721898 HTB Homo sapiens cDNA clone HTBBZC08.5
							rib6410.s1 NCI CGAP_P411 Homo sapiens cDNA clone IMAGE:988379 similar to gb:K03002.80S
1938	14962		12.23	6.0E-65	AA550929.1	EST_HUMAN	RIBOSOMAL PROTEIN L32 (HUMAN);
6721	18777	33056	0.87	8.0E-65	AA503892.1	EST_HUMAN	rib37407.at NCI_CGAP_P75 Homo sapiens cDNA clone IMAGE:954517
							xc07609.x1 NCI_CGAP_C021 Homo sapiens cDNA clone IMAGE:2863545.3 similar to TR:Q63308 Q63308
9098	22064	35469	2.49	9.0E-65	AW083252.1	EST_HUMAN	LONG INTERSPERSED REPETITIVE DNA CONTAINING 7 ORF's, contains L1,b2.L1 repetitive element;
9365	22330	35759	4.16	9.0E-65	AA427878.1	EST_HUMAN	2w53308.at Soares_tetal_fetus_N02HF8_Bw Homo sapiens cDNA clone IMAGE:773747.3
9365	22330	35760	4.16	9.0E-65	AA427878.1	EST_HUMAN	2w53308.at Soares_tetal_fetus_N02HF8_Bw Homo sapiens cDNA clone IMAGE:773747.3
8429	22393	35832	1.08	8.0E-65	A085314.1	EST_HUMAN	q18105.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1750425.3
8429	22393	35833	1.08	8.0E-65	A085314.1	EST_HUMAN	q18105.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1750425.3
11220	24173	37696	2.59	6.0E-65	BES567816.1	EST_HUMAN	601340465F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3662677.5
11378	24325	37854	1.51	6.0E-65	BF340825.1	EST_HUMAN	602037721F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4185877.5
11825	24708	38291	1.8	6.0E-65	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
832	13697	26617	1.92	5.0E-65	AF064604.1	NT	Homo sapiens KEO3 protein mRNA, partial cds
1355	14390	27398	1.22	5.0E-65	7681951	NT	Homo sapiens KIAA0156 gene product (KIAA0156), mRNA
1355	14390	27399	1.22	5.0E-65	7681951	NT	Homo sapiens KIAA0156 gene product (KIAA0156), mRNA
2164	15180	28200	1.51	5.0E-65	AB033768.1	NT	Homo sapiens HPAD-ecobony10 mRNA for papillalarginine deiminase type I, complete cds
3269	16323	29245	2.13	5.0E-65	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isocapitidase T-3) (USP13) mRNA
3269	16323	29246	2.13	5.0E-65	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isocapitidase T-3) (USP13) mRNA
7052	20074	33381	1.18	5.0E-65	4504608	NT	Homo sapiens interferon-related developmental regulator 1 (IFRD1), mRNA
10833	23754	37253	1.28	5.0E-65	AF008968.1	NT	Multiple sclerosis associated retrovirus polyprotein (pol) mRNA, partial cds
185	13296	26224	2.33	4.0E-65	AL120419.1	EST_HUMAN	DKFZp781G108.J1 761 (synonym: humpy2) Homo sapiens cDNA clone DKFZp781G108.5
747	13808	26748	1.29	4.0E-65	AJ266468.1	EST_HUMAN	qm46d01.x1 Soares_placenta_8166weeks_2NHHP8t09W Homo sapiens cDNA clone IMAGE:1891800.3

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747	13808	26749	1.29	4.0E-65	AJ266488.1	EST_HUMAN	qin46c01.x1 Soares_placenta_808weeks_2NHFP60SW Homo sapiens cDNA clone IMAGE:1891800 3'
1080	14124	27077	1.51	4.0E-65	4828735	NT	Homo sapiens fragilis X mental retardation, autosomal homolog 1 (FXR1), mRNA
1482	14515	27489	15.68	4.0E-65	4506636	NT	Homo sapiens ribosomal protein L34 (RPL34) mRNA
3971	17011	29925	0.97	4.0E-65	AV1993185.1	EST_HUMAN	RC2-BN033-16020-015-603 BN033 Homo sapiens cDNA
6279	19351	32585	4.17	4.0E-65	AB033093.1	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
6279	19351	32586	4.17	4.0E-65	AB033093.1	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
7289	20261	33595	0.82	4.0E-65	AY008372.1	NT	Homo sapiens oxyolysin binding protein-related protein 3 (ORP3) mRNA, complete cds
7324	20295	33638	0.84	4.0E-65	M19873.1	NT	Human clathrin 27 gene, exons 10 and 11, and L1 and L1 repeats
7429	20398	33748	2.48	4.0E-65	11545780	NT	Homo sapiens hypothetical protein FLJ22087 (FLJ22087), mRNA
7797	20749	34124	0.58	4.0E-65	U40372.1	NT	Human 3' 5' cyclic nucleotide phosphodiesterase (HSPDE1C3A) mRNA, partial cds
7797	20749	34125	0.58	4.0E-65	U40372.1	NT	Human 3' 5' cyclic nucleotide phosphodiesterase (HSPDE1C3A) mRNA, partial cds
8118	21055	34522	0.81	4.0E-65	U39656.1	NT	Human MAP kinase kinase 6 (MKK6) mRNA, complete cds
8174	21144	34549	0.78	4.0E-65	5453768	NT	Homo sapiens nel (chicken)-like 2 (NELL2), mRNA
8174	21144	34550	0.78	4.0E-65	5453768	NT	Homo sapiens nel (chicken)-like 2 (NELL2), mRNA
9501	22465	35905	1.34	4.0E-65	11429127	NT	Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
10945	23865		2.65	4.0E-65	AJ277546.2	NT	Homo sapiens WEE1 gene for protein kinase and partial ZNF143 gene for zinc finger transcription factor
11301	24251	37777	2.89	4.0E-65	AV738764.1	EST_HUMAN	AV738764 CB Homo sapiens cDNA clone C8C0CB05 5'
11434	24378	37918	6.02	4.0E-65	AF110948.1	NT	Homo sapiens PRO1474 mRNA, complete cds
12906	14124	27077	1.79	4.0E-65	4828735	NT	Homo sapiens fragilis X mental retardation, autosomal homolog 1 (FXR1), mRNA
13091	13296	26224	1.16	4.0E-65	AL120419.1	EST_HUMAN	DKFZp7G108.j1.761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp7G108 5'
97	13214	26139	3.16	3.0E-65	5031976	NT	Homo sapiens pro-B-cell colony-enhancing factor (PBEF) mRNA
98	13214	26139	5.52	3.0E-65	5031976	NT	Homo sapiens pro-B-cell colony-enhancing factor (PBEF) mRNA
1236	19819		22.13	3.0E-65	X78932.1	NT	H. sapiens HZF9 mRNA for zinc finger protein
1840	14867	27866	1.7	3.0E-65	AI000692.1	EST_HUMAN	ov2303.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1638173 3' similar to contains element
3303	16061	26979	0.74	3.0E-65	D87078.2	NT	MSR1 repetitive element
3290	16343	29264	0.68	3.0E-65	4504950	NT	Homo sapiens mRNA for KIAA0235 protein, partial cds
							Homo sapiens lamin, beta 1 (LAMB1), mRNA
3734	16776	29698	1.61	3.0E-65	AI000692.1	EST_HUMAN	ov2303.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1638173 3' similar to contains element
4679	17700	30588	1.33	3.0E-65	6912385	NT	MSR1 repetitive element
10429	23351	36835	1.42	3.0E-65	BE787368.1	EST_HUMAN	Homo sapiens rat6 GTPase activating protein (GAP and centrosome-associated) (GAPCEN), mRNA
							60147966F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3882405 5'

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Description
11719	23916	37433	8.57	3.0E-05	AA330006.1	EST_HUMAN	zw56a06.1 Soares, testis, NIH7 Homo sapiens cDNA clone IMAGE:781042 6'
3415	18463	29384	6.08	2.0E-05	BF980294.1	EST_HUMAN	602155062F1 NIH_MGC 83 Homo sapiens cDNA clone IMAGE:428566 5'
6889	19743		4.55	2.0E-05	BE283373.1	EST_HUMAN	601190383F1 NIH_MGC 7 Homo sapiens cDNA clone IMAGE:353741 5'
7339	20310	33653	27.64	2.0E-05	BF578922.1	EST_HUMAN	602134359F1 NIH_MGC 81 Homo sapiens cDNA clone IMAGE:428928 5'
9197	22163	35562	1.26	2.0E-05	AK024463.1	NT	Homo sapiens mRNA for FLJ00056 protein, partial cds
9197	22163	35563	1.26	2.0E-05	AK024463.1	NT	EST178155 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end similar to endogenous retrovirus
12238	25059		2.75	2.0E-05	AA307904.1	EST_HUMAN	
12708	26728		1.95	2.0E-05	BF246086.1	EST_HUMAN	601854033F1 NIH_MGC 57 Homo sapiens cDNA clone IMAGE:4073/69 5'
540	13611	28530	1.54	1.0E-05	7657495	NT	Homo sapiens putative Rab5 GTP/GTP exchange factor homologue (RABEX5), mRNA
2098	19075	28095	1.07	1.0E-05	ABD03946.1	NT	Homo sapiens mRNA for KIAA1813 protein, partial cds
3395	18434	29381	0.8	1.0E-05	BE466681.1	EST_HUMAN	hz24605.x1 NCL_CGAP_G03 Homo sapiens cDNA clone IMAGE:3208886 3'
4023	17051	29362	1.71	1.0E-05	4504032	NT	Homo sapiens glycine 4 (GPC4) mRNA
4023	17051	29363	1.71	1.0E-05	4504032	NT	Homo sapiens glycine 4 (GPC4) mRNA
4234	17263	30147	2.4	1.0E-05	AW029340.1	EST_HUMAN	wx09c09.x1 NCL_CGAP_G04 Homo sapiens cDNA clone IMAGE:2543152 3'
4234	17263	30148	2.4	1.0E-05	AW029340.1	EST_HUMAN	wx09c09.x1 NCL_CGAP_G04 Homo sapiens cDNA clone IMAGE:2543152 3'
5356	18463	31332	0.54	1.0E-05	BE089506.1	EST_HUMAN	QV0-BT0702-170400-194-709 BT0702 Homo sapiens cDNA
5356	18463	31333	0.54	1.0E-05	BE089506.1	EST_HUMAN	QV0-BT0702-170400-194-709 BT0702 Homo sapiens cDNA
5554	18651	31595	0.61	1.0E-05	AI243738.1	EST_HUMAN	gh9807.x1 Soares, NFL, I, GBC_S1 Homo sapiens cDNA clone IMAGE:1864109 3' similar to TRQ07823
8597	21565	34980	5.47	1.0E-05	AW820481.1	EST_HUMAN	QV2-ST0286-140200-042412 ST0288 Homo sapiens cDNA
8597	21565	34981	5.47	1.0E-05	AW820481.1	EST_HUMAN	QV2-ST0286-140200-042412 ST0288 Homo sapiens cDNA
8623	21591	35009	2.16	1.0E-05	BE732118.1	EST_HUMAN	601566124F1 NIH_MGC 21 Homo sapiens cDNA clone IMAGE:3841012 5'
8623	21591	35010	2.16	1.0E-05	BE732118.1	EST_HUMAN	601566124F1 NIH_MGC 21 Homo sapiens cDNA clone IMAGE:3841012 5'
8623	21630	35050	2.14	1.0E-05	AI141295.1	EST_HUMAN	AU141295 THYRO1 Homo sapiens cDNA clone THYRO100356 5'
8623	21630	35051	2.14	1.0E-05	AI141295.1	EST_HUMAN	AU141295 THYRO1 Homo sapiens cDNA clone THYRO100356 5'
9192	22158	35098	1.94	1.0E-05	BF698707.1	EST_HUMAN	602125238F1 NIH_MGC 56 Homo sapiens cDNA clone IMAGE:4289313 5'
9374	22339	35769	2.25	1.0E-05	AI128040.1	EST_HUMAN	AU128040 NT2RP2 Homo sapiens cDNA clone NT2RP2004714 5'
9374	22339	35770	2.25	1.0E-05	AI128040.1	EST_HUMAN	AU128040 NT2RP2 Homo sapiens cDNA clone NT2RP2004714 5'
9386	22351		2.52	1.0E-05	11431994	NT	(Homo sapiens insulin) 1,4,5-triphosphate receptor, type 1 (ITPR1), mRNA
9832	22681	36136	5.48	1.0E-05	AI191746.1	EST_HUMAN	gd56a02.x1 Soares, testis, NIH7 Homo sapiens cDNA clone IMAGE:753450 3' similar to gb-M29451 ZINC FINGER PROTEIN 8 (HUMAN); contains MER 9, H MER19, repetitive element
10245	23170	36599	1.28	1.0E-05	AI153793.1	EST_HUMAN	AU153793 NT2RP3 Homo sapiens cDNA clone NT2RP3004016 3'
10655	23587	37085	0.64	1.0E-05	AA069598.1	EST_HUMAN	3735a04.r1 Soares, pineal, glnad_NHPG Homo sapiens cDNA clone IMAGE:382734 5'

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10955	23855	37371	1.02	1.0E-65	AB037832.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
11011	23976	37501	7.57	1.0E-65	M26167.1	NT	Human platelet factor 4 variation 1 (PF4var1) gene, complete cds
11131	24091	37620	10.37	1.0E-65	4506600	NT	Homo sapiens ribosomal protein L7a (RPL7A) mRNA
11465	24408	37855	2.43	1.0E-65	BF698707.1	EST_HUMAN	602128239F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4283313.5'
11545	24486	38040	1.89	1.0E-65	AB021017.1	EST_HUMAN	675605.x1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE:2237170.3' similar to gb:U15533_maf1
12259	25105	31815	3.13	1.0E-65	11418041	NT	PANORCA11TIS ASSOCIATED PROTEIN 1 PRECURSOR (HUMAN)
12391	25168	31815	7.2	1.0E-65	11418322	NT	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA
12759	25427	31815	1.87	1.0E-65	11418248	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (GELSRT1), mRNA
72	13190	26110	0.94	9.0E-66	AL160311.1	NT	Homo sapiens sulfotransferase-related protein (SULTX3), mRNA
72	13180	26111	0.94	9.0E-66	AL160311.1	NT	Novel human gene mapping to chromosome 22
1356	14391	27361	0.93	9.0E-66	5031980	NT	Novel human gene mapping to chromosome 22
1356	14391	27362	0.93	9.0E-66	5031980	NT	Homo sapiens 26S proteasome-associated peptid1 homolog (POH1) mRNA
1480	14513	29668	6.17	9.0E-66	M87299.1	NT	Homo sapiens 26S proteasome-associated peptid1 homolog (POH1) mRNA
3916	16956	29668	0.74	9.0E-66	M72363.1	NT	Human transposon-like element, partial
3916	16956	29669	0.74	9.0E-66	M72363.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
4718	17739	30631	0.73	9.0E-66	AL137163.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
4717	17737	30629	1.59	8.0E-66	AA424304.1	EST_HUMAN	Novel human gene mapping to chromosome X
11675	24641		1.48	7.0E-66	BE064410.1	EST_HUMAN	z60c05.1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:767048.5'
4393	17421	30304	1.01	6.0E-66	AB024663.1	EST_HUMAN	RC4-BT0311-141196-011-H06 BT0311 Homo sapiens cDNA
4393	17421	30306	1.01	6.0E-66	AB024663.1	EST_HUMAN	w657707.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2446567.3' similar to WP:F15G9.4A
4393	17421	30306	1.01	6.0E-66	AB024663.1	EST_HUMAN	CE18595;
4393	17421	30306	1.01	6.0E-66	AB024663.1	EST_HUMAN	w657707.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2446567.3' similar to WP:F15G9.4A
4393	17421	30306	1.01	6.0E-66	AB024663.1	EST_HUMAN	CE18596;
11469	24398	37855	4.78	6.0E-66	BE178563.1	EST_HUMAN	w657707.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2446567.3' similar to WP:F15G9.4A
1369	14403	27373	1.94	5.0E-66	BE064410.1	EST_HUMAN	PM2-HT0604-030300-001-b06 HT0604 Homo sapiens cDNA
9649	22593	39041	15.54	5.0E-66	11420567	NT	H. sapiens mRNA for ribosomal protein L31
791	13850	26767	1.39	4.0E-66	6673816	NT	RC4-BT0311-141196-011-H06 BT0311 Homo sapiens cDNA
1750	14779	27674	1.16	4.0E-66	AB097766.1	EST_HUMAN	Homo sapiens thyroid hormone receptor binding protein (AB3), mRNA
2286	15301	28325	1.84	4.0E-66	X69211.1	NT	MUS musculus fragile X mental retardation syndrome 1 homolog (Fmr1), mRNA
2481	16486		2.82	4.0E-66	AL223364.1	NT	RC1-NN0065-100500-022-e02 NN0063 Homo sapiens cDNA
4823	17840		3.19	4.0E-66	9635487	NT	H. sapiens DNA for endogenous retroviral like element
						NT	Homo sapiens germ-line DNA upstream of Jkappa locus
						NT	Human endogenous retrovirus, complete genome

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5930	18726	31887	3.86	4.0E-68	11428843	NT	Homo sapiens methylome tetrahydrofolate dehydrogenase (NAD ⁺ dependent), methenyltetrahydrofolate cyclodihydroase (MTHFD2), mRNA
5835	18925	32108	0.78	4.0E-68	AW593719.1	EST_HUMAN	QV1-DT0089-110200-067-g10 DT0089 Homo sapiens cDNA
7035	18368	31255	4.69	4.0E-68	AW695473.1	EST_HUMAN	EST377543 MAGE resequences, MAGI Homo sapiens cDNA
7338	20309	33652	7.18	4.0E-68	U78168.1	NT	Homo sapiens cAMP-regulated guanine nucleotide exchange factor 1 (cAMP-GEF1) mRNA, complete cds
7891	18726	31887	0.98	4.0E-68	11428843	NT	Homo sapiens methylome tetrahydrofolate dehydrogenase (NAD ⁺ dependent), methenyltetrahydrofolate cyclodihydroase (MTHFD2), mRNA
8413	21382	34789	6.45	4.0E-68	11421838	NT	Homo sapiens hypochelical protein FLJ20119 (FLJ20118), mRNA
8472	21441	34859	1.46	4.0E-68	X57147.1	NT	Human endogenous retrovirus pHE-1 (ERV9)
11020	23985	37512	1.75	4.0E-68	BF507468.1	EST_HUMAN	UHH-BW1-arr-5-10-3-U1st NCI-GAP_Sub7 Homo sapiens cDNA clone IMAGE-3070747 3'
11706	24871	38248	1.53	4.0E-68	AB023161.1	NT	Homo sapiens mRNA for KIAA0898 protein, partial cds
1424	14457	27432	5.89	3.0E-68	4502098	NT	Homo sapiens soluble carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein, mRNA
1424	14457	27433	5.89	3.0E-68	4502098	NT	Homo sapiens soluble carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein, mRNA
1959	19020	28027	1.07	3.0E-66	N55323.1	EST_HUMAN	Y27G12.1 Scans, multiple, odorless, 2N6HMSF Homo sapiens cDNA clone IMAGE-284328 5' similar to SW-H2B1, JIGCA P35068 HISTONE H2B-1H2B.2 [2] PIR-B56812
1959	19020	28028	1.07	3.0E-66	N55323.1	EST_HUMAN	Y27G12.1 Scans, multiple, odorless, 2N6HMSF Homo sapiens cDNA clone IMAGE-284328 5' similar to SW-H2B1, JIGCA P35068 HISTONE H2B-1H2B.2 [2] PIR-B56812
1959	15020	28029	1.07	3.0E-66	N55323.1	EST_HUMAN	Y27G12.1 Scans, multiple, odorless, 2N6HMSF Homo sapiens cDNA clone IMAGE-284328 5' similar to SW-H2B1, JIGCA P35068 HISTONE H2B-1H2B.2 [2] PIR-B56812
1959	15020	28029	1.07	3.0E-66	N55323.1	EST_HUMAN	Y27G12.1 Scans, multiple, odorless, 2N6HMSF Homo sapiens cDNA clone IMAGE-284328 5' similar to SW-H2B1, JIGCA P35068 HISTONE H2B-1H2B.2 [2] PIR-B56812
1959	15020	28029	1.07	3.0E-66	N55323.1	EST_HUMAN	Y27G12.1 Scans, multiple, odorless, 2N6HMSF Homo sapiens cDNA clone IMAGE-284328 5' similar to SW-H2B1, JIGCA P35068 HISTONE H2B-1H2B.2 [2] PIR-B56812
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1959	15020	28029	1.07	3.0E-66	N55323.1	EST_HUMAN	Y27G12.1 Scans, multiple, odorless, 2N6HMSF Homo sapiens cDNA clone IMAGE-284328 5' similar to SW-H2B1, JIGCA P35068 HISTONE H2B-1H2B.2 [2] PIR-B56812
1959	15020	28029	1.07	3.0E-66	N55323.1	EST_HUMAN	Y27G12.1 Scans, multiple, odorless, 2N6HMSF Homo sapiens cDNA clone IMAGE-284328 5' similar to SW-H2B1, JIGCA P35068 HISTONE H2B-1H2B.2 [2] PIR-B56812
1959	15020	28029	1.07	3.0E-66	N55323.1	EST_HUMAN	Y27G12.1 Scans, multiple, odorless, 2N6HMSF Homo sapiens cDNA clone IMAGE-284328 5' similar to SW-H2B1, JIGCA P35068 HISTONE H2B-1H2B.2 [2] PIR-B56812
1959	15020	28029	1.07	3.0E-66	N55323.1	EST_HUMAN	Y27G12.1 Scans, multiple, odorless, 2N6HMSF Homo sapiens cDNA clone IMAGE-284328 5' similar to SW-H2B1, JIGCA P35068 HISTONE H2B-1H2B.2 [2] PIR-B56812
1959	15020	28029	1.07	3.0E-66	N55323.1	EST_HUMAN	Y27G12.1 Scans, multiple, odorless, 2N6HMSF Homo sapiens cDNA clone IMAGE-284328 5' similar to SW-H2B1, JIGCA P35068 HISTONE H2B-1H2B.2 [2] PIR-B56812
1959	15020	28029	1.07	3.0E-66	N55323.1	EST_HUMAN	Y27G12.1 Scans, multiple, odorless, 2N6HMSF Homo sapiens cDNA clone IMAGE-284328 5' similar to SW-H2B1, JIGCA P35068 HISTONE H2B-1H2B.2 [2] PIR-B56812
1959	15020	28029	1.07	3.0E-66	N55323.1	EST_HUMAN	Y27G12.1 Scans, multiple, odorless, 2N6HMSF Homo sapiens cDNA clone IMAGE-284328 5' similar to SW-H2B1, JIGCA P35068 HISTONE H2B-1H2B.2 [2] PIR-B56812
1959	15020	28029	1.07	3.0E-66	N55323.1	EST_HUMAN	Y27G12.1 Scans, multiple, odorless, 2N6HMSF Homo sapiens cDNA clone IMAGE-284328 5' similar to SW-H2B1, JIGCA P35068 HISTONE H2B-1H2B.2 [2] PIR-B56812
1959	15020	28029	1.07	3.0E-66	N55323.1	EST_HUMAN	Y27G12.1 Scans, multiple, odorless, 2N6HMSF Homo sapiens cDNA clone IMAGE-284328 5' similar to SW-H2B1, JIGCA P35068 HISTONE H2B-1H2B.2 [2] PIR-B56812
1959	15020	28029	1.07	3.0E-66	N55323.1	EST_HUMAN	Y27G12.1 Scans, multiple, odorless, 2N6HMSF Homo sapiens cDNA clone IMAGE-284328 5' similar to SW-H2B1, JIGCA P35068 HISTONE H2B-1H2B.2 [2] PIR-B56812
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1959	15020	28029	1.07	3.0E-66	N55323.1	EST_HUMAN	Y27G12.1 Scans, multiple, odorless, 2N6HMSF Homo sapiens cDNA clone IMAGE-284328 5' similar to SW-H2B1, JIGCA P35068 HISTONE H2B-1H2B.2 [2] PIR-B56812
1959	15020	28029	1.07	3.0E-66	N55323.1	EST_HUMAN	Y27G12.1 Scans, multiple, odorless, 2N6HMSF Homo sapiens cDNA clone IMAGE-284328 5' similar to SW-H2B1, JIGCA P35068 HISTONE H2B-1H2B.2 [2] PIR-B56812
1959	15020	28029	1.07	3.0E-66	N55323.1	EST_HUMAN	Y27G12.1 Scans, multiple, odorless, 2N6HMSF Homo sapiens cDNA clone IMAGE-284328 5' similar to SW-H2B1, JIGCA P35068 HISTONE H2B-1H2B.2 [2] PIR-B56812
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1959	15020	28029	1.07	3.0E-66	N55323.1	EST_HUMAN	Y27G12.1 Scans, multiple, odorless, 2N6HMSF Homo sapiens cDNA clone IMAGE-284328 5' similar to SW-H2B1, JIGCA P35068 HISTONE H2B-1H2B.2 [2] PIR-B56812
1959	15020	28029	1.07	3.0E-66	N55323.1	EST_HUMAN	Y27G12.1 Scans, multiple, odorless, 2N6HMSF Homo sapiens cDNA clone IMAGE-284328 5' similar to SW-H2B1, JIGCA P35068 HISTONE H2B-1H2B.2 [2] PIR-B56812
1959	15020	28029	1.07	3.0E-66	N55323.1	EST_HUMAN	Y27G12.1 Scans, multiple, odorless, 2N6HMSF Homo sapiens cDNA clone IMAGE-284328 5' similar to SW-H2B1, JIGCA P35068 HISTONE H2B-1H2B.2 [2] PIR-B56812
1959	15020	28029	1.07	3.0E-66	N55323.1	EST_HUMAN	Y27G12.1 Scans, multiple, odorless, 2N6HMSF Homo sapiens cDNA clone IMAGE-284328 5' similar to SW-H2B1, JIGCA P35068 HISTONE H2B-1H2B.2 [2] PIR-B56812
1959	15020	28029	1.07	3.0E-66	N55323.1	EST_HUMAN	Y27G12.1 Scans, multiple, odorless, 2N6HMSF Homo sapiens cDNA clone IMAGE-284328 5' similar to SW-H2B1, JIGCA P35068 HISTONE H2B-1H2B.2 [2] PIR-B56812
1959	15020	28029	1.07	3.0E-66	N55323.1	EST_HUMAN	Y27G12.1 Scans, multiple, odorless, 2N6HMSF Homo sapiens cDNA clone IMAGE-284328 5' similar to SW-H2B1, JIGCA P35068 HISTONE H2B-1H2B.2 [2] PIR-B56812
1959	15020	28029	1.07	3.0E-66	N55323.1	EST_HUMAN	Y27G12.1 Scans, multiple, odorless, 2N6HMSF Homo sapiens cDNA clone IMAGE-284328 5' similar to SW-H2B1, JIGCA P35068 HISTONE H2B-1H2B.2 [2] PIR-B56812
1959	15020	28029	1.07	3.0E-66	N55323.1	EST_HUMAN	Y27G12.1 Scans, multiple, odorless, 2N6HMSF Homo sapiens cDNA clone IMAGE-284328 5' similar to SW-H2B1, JIGCA P35068 HISTONE H2B-1H2B.2 [2] PIR-B56812
1959	15020	28029	1.07	3.0E-66	N55323.1	EST_HUMAN	Y27G12.1 Scans, multiple, odorless, 2N6HMSF Homo sapiens cDNA clone IMAGE-284328 5' similar to SW-H2B1, JIGCA P35068 HISTONE H2B-1H2B.2 [2] PIR-B56812
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1959	15020	28029	1.07	3.0E-66	N55323.1	EST_HUMAN	Y27G12.1 Scans, multiple, odorless, 2N6HMSF

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Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11838	24721	38308	5.1	3.0E-66	5453949	NT	Homo sapiens protein phosphatase 2, regulatory subunit B (B56), alpha isoform (PPP2R5A) mRNA
13109	26629	31647	1.38	3.0E-66	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330) mRNA
53	13173	26082	1.94	2.0E-66	7657334	NT	Homo sapiens Mischapen/NIK-related kinase (MINK) mRNA
53	13173	26083	1.94	2.0E-66	7657334	NT	Homo sapiens Mischapen/NIK-related kinase (MINK) mRNA
422	13117	26015	0.7	2.0E-66	4505524	NT	Homo sapiens origin recognition complex, subunit 5 (yeast homolog) like (ORC5L) mRNA, and translated products
422	13117	26016	0.7	2.0E-66	4505524	NT	Homo sapiens origin recognition complex, subunit 5 (yeast homolog) like (ORC5L) mRNA, and translated products
1843	14869	27867	2.18	2.0E-66	AL169301.2	NT	Homo sapiens chromosome 21 segment HS21C101
2241	15235	28279	2.33	2.0E-66	X65859.1	NT	H sapiens pseudogene for the low affinity IL-8 receptor
2886	16044	28865	1.39	2.0E-66	X65859.1	NT	H sapiens pseudogene for the low affinity IL-8 receptor
3532	16578	29501	0.79	2.0E-66	8922260	NT	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA
3777	16819	29727	0.9	2.0E-66	AL117233.1	NT	Novel human gene mapping to chromosome 1
4655	17708	30598	36.62	2.0E-66	AJ133287.2	NT	Homo sapiens HLA-B gene for human leukocyte antigen B
4655	17708	30598	36.62	2.0E-66	AJ133287.2	NT	Homo sapiens HLA-B gene for human leukocyte antigen B
5914	19000	32191	0.82	2.0E-66	AW56854.1	EST_HUMAN	EST380930 MAGE resequences, MAGJ Homo sapiens cDNA
5914	19000	32192	0.82	2.0E-66	AW56854.1	EST_HUMAN	EST380930 MAGE resequences, MAGJ Homo sapiens cDNA
9199	21165	35595	2.86	2.0E-66	N45480.1	EST_HUMAN	X76902.1 Scanes, multiple, sclerotic_2NH4KSP Homo sapiens cDNA IMAGE:277826 5'
12614	25841		2.61	2.0E-66	11418318	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
2804	15963	28885	1.98	1.0E-66	AV171817.1	EST_HUMAN	AV171817 DGB Homo sapiens cDNA clone DGBAD007 5'
2804	15963	28886	1.98	1.0E-66	AV171817.1	EST_HUMAN	AV171817 DGB Homo sapiens cDNA clone DGBAD007 5'
4412	15963	28885	3.59	1.0E-66	AV171817.1	EST_HUMAN	AV171817 DGB Homo sapiens cDNA clone DGBAD007 5'
4412	15963	28886	3.59	1.0E-66	AV171817.1	EST_HUMAN	AV171817 DGB Homo sapiens cDNA clone DGBAD007 5'
5455	18567	31468	5.82	1.0E-66	BF673088.1	EST_HUMAN	89215296F NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4294151 5'
5875	18944	32154	0.84	1.0E-66	BE765232.1	EST_HUMAN	IL2NT0101-280700-116-E04 NT0101 Homo sapiens cDNA
5875	18944	32155	0.84	1.0E-66	BE765232.1	EST_HUMAN	IL2NT0101-280700-116-E04 NT0101 Homo sapiens cDNA
7125	20058	33364	1.09	1.0E-66	BF328623.1	EST_HUMAN	RC5-BN0163-010800-034-G06 BN0163 Homo sapiens cDNA
8601	21768	35192	1.2	1.0E-66	AA958858.1	EST_HUMAN	sa0604.s1 NC1 CGAP GC81 Homo sapiens cDNA clone IMAGE:827262 3'
9781	22722	36176	0.7	1.0E-66	AA018928.1	EST_HUMAN	sa0742.1 Scanes, retina N264HR Homo sapiens cDNA clone IMAGE:365118 5'
10737	23659	37153	0.9	1.0E-66	AV48746.1	EST_HUMAN	AV48746 NPC Homo sapiens cDNA clone NPCBVA05 5'
10737	23659	37154	0.9	1.0E-66	AV48746.1	EST_HUMAN	AV48746 NPC Homo sapiens cDNA clone NPCBVA05 5'
10693	23913	37429	0.44	1.0E-66	BE044595.1	EST_HUMAN	h07f002.x1 Scanes, NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:3040563 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top Hit) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11260	24240	37767	2.47	1.0E-06	AF11167.2	NT	Homo sapiens Jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
11853	24735	38322	1.69	1.0E-06	AW98744.1	EST_HUMAN	EST380820 IMAGE resequencing, MAGJ Homo sapiens cDNA
12396	25170		2.75	9.0E-07	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
380	13493	28425	2.51	7.0E-07	AW162232.1	EST_HUMAN	au75602.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782083 3' similar to gb:M37104
1382	14416	27386	1.23	7.0E-07	AA383416.1	EST_HUMAN	ATP SYNTHASE COUPLING FACTOR 8, MITOCHONDRIAL PRECURSOR (HUMAN);
1558	14500	27581	1.19	7.0E-07	W85947.1	EST_HUMAN	EST196812 T cells 1 Homo sapiens cDNA 5' end similar to C. elegans hypothetical protein, cosmid
1558	14500	27582	1.19	7.0E-07	W85947.1	EST_HUMAN	ZK363
2048	15087	28088	1.02	7.0E-07	7657243	NT	zH56b05.r1 Soares fetal liver spleen, INFLS, S1 Homo sapiens cDNA clone IMAGE:416048 5'
2048	15087	28088	1.02	7.0E-07	7657243	NT	Homo sapiens histidyl 1,3,4-triphosphate 5/8 kinase (ITPK1), mRNA
2821	13493	28425	2.78	7.0E-07	AW162232.1	EST_HUMAN	Homo sapiens histidyl 1,3,4-triphosphate 5/8 kinase (ITPK1), mRNA
6199	19273	32507	0.99	7.0E-07	10190695	NT	au75602.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782083 3' similar to gb:M37104
6401	19489	32718	1.92	7.0E-07	11425572	NT	ATP SYNTHASE COUPLING FACTOR 8, MITOCHONDRIAL PRECURSOR (HUMAN);
6401	19489	32717	1.92	7.0E-07	11425572	NT	Homo sapiens zinc finger protein 304 (ZNF304), mRNA
6885	19937	33233	1.14	7.0E-07	4885084	NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
7593	20536	34216	1.13	7.0E-07	11419212	NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
7593	20536	34217	1.13	7.0E-07	11419212	NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
8698	21834	35055	0.89	7.0E-07	4557732	NT	Homo sapiens ATPase, H+ transporting, lysosomal (vacuolar proton pump) non-catalytic accessory protein
9784	22250	35681	0.73	7.0E-07	10835044	NT	1A (11071160) (ATP6A1), mRNA
11985	24852	38458	2.45	7.0E-07	U82486.1	NT	Homo sapiens mitochondrial carrier family protein (LOC55972), mRNA
12169	25019	38619	1.92	7.0E-07	11430460	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
12169	25019	38620	1.92	7.0E-07	11430460	NT	Homo sapiens retinaldehyde dehydrogenase 2 (RALDH2), mRNA
12839	25523	31786	1.66	7.0E-07	AB011369.1	NT	Human cyclochrome oxidase subunit VIIa (COX9A1P) pseudogene, complete cds
13009	25551		1.44	7.0E-07	11421627	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
561	13831	28548	1.19	6.0E-07	X68968.1	NT	Homo sapiens gene for AF-6, complete cds
776	13855	28802	1.7	6.0E-07	Z17227.1	NT	Homo sapiens calcium channel, voltage-dependent, alpha 2/delta subunit 1 (CACNA2D1), mRNA
1278	14313	27274	2.06	6.0E-07	Y14320.1	NT	H. sapiens mRNA for acetyl-CoA carboxylase
3183	16238	28166	1.16	6.0E-07	4508434	NT	Homo sapiens mRNA for transmembrane receptor protein
3451	16487	29414	1.33	6.0E-07	4507332	NT	Homo sapiens PIV/PS9 gene, exons 3, 4, 5, 6 & 7
3451	16487	29415	1.33	6.0E-07	4507332	NT	Homo sapiens retinoblastoma 1 (including osteosarcoma) (RB1) mRNA
3451	16487	29415	1.33	6.0E-07	4507332	NT	Homo sapiens Synapsin III (SYN3) mRNA, and translated products
3451	16487	29415	1.33	6.0E-07	4507332	NT	Homo sapiens Synapsin III (SYN3) mRNA, and translated products

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4152	17183	30059	0.79	6.0E-67	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
4152	17183	30070	0.78	6.0E-67	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
4734	17154	30847	3.95	6.0E-67	7957020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
4734	17154	30848	3.56	6.0E-67	7957020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
5242	18280	31121	0.89	6.0E-67	AF016898.1	NT	Homo sapiens BA-TF gene, complete cds
5242	18280	31122	0.99	6.0E-67	AF016898.1	NT	Homo sapiens BA-TF gene, complete cds
3235	16290	29212	2.02	5.0E-67	AF008680.1	NT	Homo sapiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region
11329	24278		13.19	5.0E-67	BE010038.1	EST_HUMAN	PM3-SN0176-100400-001-g04 EN0176 Homo sapiens cDNA
1331	14366	27335	2.25	4.0E-67	R80816.1	EST_HUMAN	Y02411.1 Soares adult brain N2641B85Y Homo sapiens cDNA clone IMAGE:167253 5'
8355	21324	34736	0.88	4.0E-67	AI733032.1	EST_HUMAN	g26c05.x5 NCI CGAP Kid3 Homo sapiens cDNA clone IMAGE:1493288 3' similar to SW_Z33A_HUMAN
8725	21693		1.18	4.0E-67	BF357321.1	EST_HUMAN	Q06730 ZINC FINGER PROTEIN 33A ;
11403	24347		1.46	4.0E-67	AA714294.1	EST_HUMAN	RCO-HT0894-180800-028-c03 HT0894 Homo sapiens cDNA
2824	13699	26620	1.19	3.0E-67	AA333768.1	EST_HUMAN	nv06a07.s1 NCI CGAP_S51 Homo sapiens cDNA clone IMAGE:1238472 3' similar to TR_O10385 O10385
4723	17743	30634	2.52	3.0E-67	AW869159.1	EST_HUMAN	PRO-POL-DUTPASE POLYPROTEIN ;
4753	17773		1.09	3.0E-67	AL163278.2	NT	MR3-SN0066-040500-008-f01 SN0066 Homo sapiens cDNA
8522	21490	34605	1.15	3.0E-67	BF196098.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C079
11586	24526		15.35	3.0E-67	AA927874.1	EST_HUMAN	nr1105.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134913 3' similar to SW_RHOP_MOUSE
190	13291	26217	0.97	2.0E-67	BE346354.1	EST_HUMAN	cm18007.s1 Scores_NFL_T_G8C_S1 Homo sapiens cDNA clone IMAGE:1541365 3'
846	13902	26860	6.49	2.0E-67	AW816405.1	EST_HUMAN	nv16g05.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3163136 3' similar to WP-F23H11.9
1107	14151		1.26	2.0E-67	AF167480.1	NT	QV4-ST0234-181188-037-406 ST0234 Homo sapiens cDNA
1901	14925	27622	1.26	2.0E-67	BE303037.1	EST_HUMAN	Homo sapiens double stranded RNA activated protein kinase (PKR) gene, exons 2a, 2, 3, and 4
1901	14925	27622	1.26	2.0E-67	BE303037.1	EST_HUMAN	ba72g05.v1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2605976 5' similar to TR_O94892 O94892
2251	15265	26292	0.9	2.0E-67	11422946	NT	KIA0798 PROTEIN ;
2251	15265	26292	0.9	2.0E-67	11422946	NT	ba72g05.v1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2605976 5' similar to TR_O94892 O94892
2394	15401	28428	1.16	2.0E-67	AF300951.1	NT	KIA0798 PROTEIN ;
2438	15445	28463	1.36	2.0E-67	4788795	EST	Homo sapiens KRAB zinc finger protein ZFOR mRNA, complete cds
3481	16527	29452	3.78	2.0E-67	AA625755.1	EST_HUMAN	Homo sapiens developmentally regulated GTP-binding protein 1 (DRG1), mRNA
4027	17065	29666	2.7	2.0E-67	AL163300.2	NT	z091001.s1 Soares Testis NIH Homo sapiens cDNA clone IMAGE:745392 3'
							Homo sapiens chromosome 21 segment HS21C100

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6190	19284	32500	0.77	2.0E-67	AL049784.1	NT	Novel human gene mapping to chromosome 13
6247	19320	32550	4.91	2.0E-67	BF240758.1	EST_HUMAN	301875851F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4091850 5'
6428	19484	32748	2.19	2.0E-67	AB051763.1	NT	Homo sapiens mRNA for NADPH-cytochrome P-450 reductase, complete cds
-	8428	19484	2.19	2.0E-67	AB051763.1	NT	Homo sapiens mRNA for NADPH-cytochrome P-450 reductase, complete cds
8788	19552	33137	0.77	2.0E-67	AL120542.1	EST_HUMAN	DKF2p761A228.J1 781 (synonym: ham2) Homo sapiens cDNA clone DKF2p761A228 5'
8804	21870	35265	0.83	2.0E-67	AA334608.1	EST_HUMAN	EST138850 Embryo 9 week Homo sapiens cDNA 5' and similar to similar to cerebellin
8804	21870	35268	0.83	2.0E-67	AA334608.1	EST_HUMAN	EST138850 Embryo 9 week Homo sapiens cDNA 5' and similar to similar to cerebellin
9348	22313	35737	1.11	2.0E-67	AW602635.1	EST_HUMAN	RC4-BT10666-170100-011-c07 BT10568 Homo sapiens cDNA
9348	22313	35738	1.11	2.0E-67	AW602635.1	EST_HUMAN	RC4-BT10666-170100-011-c07 BT10568 Homo sapiens cDNA
9925	22809	36261	1.05	2.0E-67	AV731333.1	EST_HUMAN	AV731333 HTF Homo sapiens cDNA clone HTFARD03 5'
10097	22894	36463	1.01	2.0E-67	AW293924.1	EST_HUMAN	U1H.B12.alpha-e-10-o.U1.s1 NCI CGAP Sub4 Homo sapiens cDNA clone IMAGE:2727283 3'
10584	23804	37418	0.44	2.0E-67	AA928086.1	EST_HUMAN	en68307.s1 Soares_NFL_T_OEC_S1 Homo sapiens cDNA clone IMAGE:1593541 3'
11249	24202	37724	1.47	2.0E-67	BF685788.1	EST_HUMAN	602140470F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4301705 5'
11380	24327	37858	1.39	2.0E-67	BF034485.1	EST_HUMAN	801455028F1 NIH_MGC_86 Homo sapiens cDNA clone IMAGE:3858875 5'
11398	26011		2.51	2.0E-67	11436448	NT	Homo sapiens KIAA0985 protein (KIAA0985), mRNA
11582	24502	39060	1.93	2.0E-67	BE295714.1	EST_HUMAN	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
11784	23939	37461	1.83	2.0E-67	BF377166.1	EST_HUMAN	PM2-TN0103-040600-001-c02 TN0103 Homo sapiens cDNA
12808	25434	31741	1.73	2.0E-67	11417877	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA
253	19350	26276	1.92	1.0E-67	4502186	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nehd-II, Alzheimer disease) (APP), mRNA
709	13771	28705	1.34	1.0E-67	AA702794.1	EST_HUMAN	2560004.s1 Soares_fetal_liver_solen_1NF.S_51 Homo sapiens cDNA clone IMAGE:448015 3'
10587	23509	37001	0.44	1.0E-67	QB3075	SWISSPROT	HYPOTHETICAL PROTEIN KIAA0218
10587	23509	37002	0.44	1.0E-67	QB3075	SWISSPROT	HYPOTHETICAL PROTEIN KIAA0218
2188	19201	28221	2.37	8.0E-68	BE870732.1	EST_HUMAN	801448958F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3852254 5'
3683	16923	28631	4.25	8.0E-68	AA209456.1	EST_HUMAN	248210.r1 Strategene hNT neuron (6937233) Homo sapiens cDNA clone IMAGE:648163 5' similar to SW.SAV_SULAC_Q07590 SAV PROTEIN ;
3683	16923	28632	4.25	8.0E-68	AA209456.1	EST_HUMAN	248210.r1 Strategene hNT neuron (6937233) Homo sapiens cDNA clone IMAGE:648163 5' similar to SW.SAV_SULAC_Q07590 SAV PROTEIN ;
8438	21407	34619	0.57	7.0E-68	AB10505.1	EST_HUMAN	WB88603.s1 NCI_CGAP_P28 Homo sapiens cDNA clone IMAGE:2312860 3'
10816	23737	37240	2.48	6.0E-68	11422066	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
12811	25436		2.18	6.0E-68	BE812554.1	EST_HUMAN	801452087F1 NIH_MGC_86 Homo sapiens cDNA clone IMAGE:3855761 5'
13058	25594	31686	1.52	6.0E-68	BF310675.1	EST_HUMAN	801864836F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:412414 5'
803	13815	28610	0.88	5.0E-68	AF231918.1	NT	Homo sapiens chromosome 21 unknown mRNA
803	13815	28611	0.88	5.0E-68	AF231918.1	NT	Homo sapiens chromosome 21 unknown mRNA

Table 4

Single Exon Probes Expressed In Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top Hit) BLASTE Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
820	13878	26827	4.72	5.0E-68	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
820	13878	26928	4.72	5.0E-68	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
2701	15783	28799	1.23	5.0E-68	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
3162	16218	29133	3.08	5.0E-68	AB037852.1	NT	Homo sapiens mRNA for KIAA1431 protein, partial cds
4310	17239		0.8	5.0E-68	4826867	NT	Homo sapiens retinol-binding protein 2 (RBP2) mRNA
4518	17543	30429	0.75	5.0E-68	AL157645.1	EST_HUMAN	DKFZP547D207.11 547 (synonym: hbr1) Homo sapiens cDNA clone DKFZP547D207.5'
6889	19941	33236	0.67	5.0E-68	7019512	NT	Homo sapiens RAB3A interacting protein (rab3) like 1 (RAB31L1), mRNA
6889	19941	33237	0.67	5.0E-68	7019512	NT	Homo sapiens RAB3A interacting protein (rab3) like 1 (RAB31L1), mRNA
2532	15535	28555	0.94	4.0E-68	11421388	NT	Homo sapiens transcription factor NRF (NRF), mRNA
2532	15535	28556	0.94	4.0E-68	11421388	NT	Homo sapiens transcription factor NRF (NRF), mRNA
50111	18025		7.63	4.0E-68	P04406	SWISSPROT	GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE, LIVER
6075	19156	32368	0.67	4.0E-68	AF157083.1	NT	Homo sapiens sadin (SEDL) gene, exon 4
6939	20163	33485	5.5	4.0E-68	11055991	NT	Homo sapiens serine carboxypeptidase 1 precursor protein (HSCF1), mRNA
6939	20163	33486	5.5	4.0E-68	11055991	NT	Homo sapiens serine carboxypeptidase 1 precursor protein (HSCF1), mRNA
7046	20837	34278	0.72	4.0E-68	D63479.2	NT	Homo sapiens DKFZP588L0724 protein (DKFZP588L0724), mRNA
8395	22360	35700	5.91	4.0E-68	D63479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
9395	22360	35701	5.91	4.0E-68	D63479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
9583	22486	35944	2.83	4.0E-68	AB040918.1	NT	Homo sapiens protein tyrosine phosphatase type IVA, member 1 (PTP4A1) mRNA
11345	24295	37821	1.55	4.0E-68	4506282	NT	Homo sapiens protein tyrosine phosphatase type IVA, member 1 (PTP4A1) mRNA
11345	24295	37822	1.55	4.0E-68	4506282	NT	Homo sapiens G-protein coupled receptor GPR73 (Gpr73) mRNA, complete cds
3673	16716	29630	5.02	3.0E-68	AF236082.1	NT	Mus musculus G-protein coupled receptor GPR73 (Gpr73) mRNA, complete cds
5296	18303	31164	0.93	3.0E-68	AF236082.1	NT	Mus musculus G-protein coupled receptor GPR73 (Gpr73) mRNA, complete cds
9812	21135		5.47	3.0E-68	A1342323.1	EST_HUMAN	q38h02.x1 Soares, fetal, lung, Nbr-L19W Homo sapiens cDNA clone IMAGE:1650291.3' similar to contains THR-12 THR repetitive element
10968	22798	37268	2.01	3.0E-68	F28784.1	EST_HUMAN	HSPO18178 HM3 Homo sapiens cDNA clone s3000023D09
13012	25725		1.99	3.0E-68	AY030465.1	EST_HUMAN	QV1-DT0077-010200-085-R08 D10072 Homo sapiens cDNA
2873	18321		27.9	2.0E-68	D06522.1	NT	Cricetus longicaudatus mRNA for EF-1 alpha, complete cds
4055	17092	26987	0.75	2.0E-68	BE675788.1	EST_HUMAN	771502.X1 NCI CGAP CLT1 Homo sapiens cDNA clone IMAGE:3294747.3' similar to TR:O80828 O83828
4709	17729	30623	1.86	2.0E-68	AB100688.1	EST_HUMAN	HYPOPHETICAL 93.8 KD PROTEIN
7059	20061		9.21	2.0E-68	R45988.1	EST_HUMAN	953804.x1 Soares Infant brain N18 Homo sapiens cDNA clone IMAGE:34898.3'
7265	20000	33289	4.51	2.0E-68	BF035316.1	EST_HUMAN	60745851.RFT NIH_MGC_06 Homo sapiens cDNA clone IMAGE:3862034.5'
7425	20392		0.61	2.0E-68		NT	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine polypeptide N-acetylglucosaminyltransferase 8 (GalNac-T8) (GALNT8), mRNA

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7595	20558	33916	0.61	2.0E-08	BF338743.1	EST_HUMAN	IL3-CT0534-180900-273-A01 CT0534 Homo sapiens cDNA
9301	22288	35895	0.67	2.0E-08	Q05859	SWISSPROT	FORMIN 4 (LIMB DEFORMITY PROTEIN)
80	13196	26120	0.75	1.0E-08	4505222	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA
296	13390	26310	17.65	1.0E-08	AW816405.1	EST_HUMAN	QV4-ST0234-181198-037-405 ST0234 Homo sapiens cDNA
2263	15277	26301	1.27	1.0E-08	AB011148.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
2263	15277	26302	1.27	1.0E-08	AB011148.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
2767	15759	26781	1.04	1.0E-08	AV451832.1	EST_HUMAN	U1H-B13 alk-4-01-Q-J1-s1 NC1 CGAP Sus5 Homo sapiens cDNA clone IMAGE:2737272 3'
4037	17075	28975	1.01	1.0E-08	BE296032.1	EST_HUMAN	601177002F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532344 5'
5066	18076	30857	0.66	1.0E-08	AA897343.1	EST_HUMAN	847/61/2.51 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1460518 3'
7938	18498	31376	1.8	1.0E-08	7662349	NT	Homo sapiens cell recognition molecule Caspr2 (KIAA0688), mRNA
7938	20890	34270	0.56	1.0E-08	11439716	NT	Homo sapiens sentrinSUMO-specific protease (SENPT), mRNA
11198	24153	37694	1.48	1.0E-08	11418869	NT	Homo sapiens phosphodiesterase 7B (PDE7B), mRNA
11198	24153	37695	1.48	1.0E-08	11418869	NT	Homo sapiens phosphodiesterase 7B (PDE7B), mRNA
11250	24203	37725	3.37	1.0E-08	L78416.1	NT	Homo sapiens MIF2 suppressor (HSMIT3) mRNA, complete cds
11931	24588	38131	2.13	1.0E-08	U50319.1	NT	Human protein kinase C substrate 80K-H (PRKGSH) gene, exon 4-5
11931	24588	38132	2.13	1.0E-08	U50319.1	NT	Human protein kinase C substrate 80K-H (PRKGSH) gene, exon 4-5
11975	24852	39449	1.73	1.0E-08	11418431	NT	Homo sapiens CGI-78 protein (LOC51632), mRNA
11975	24852	39450	1.73	1.0E-08	11418431	NT	Homo sapiens CGI-78 protein (LOC51632), mRNA
12790	13196	28120	2.19	1.0E-08	4505222	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA
13005	25896	31419	2.07	1.0E-08	11430460	NT	Homo sapiens adp-ribosylation factor GTPase activating protein 2 (LRP2), mRNA
13057	25593		1.91	1.0E-08	11418213	NT	Homo sapiens ADP-ribosylation factor GTPase activating protein 1 (ARFGAP1), mRNA
22	13142	26040	5.15	9.0E-09	5031978	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBCEF) mRNA
22	13142	26041	5.15	9.0E-09	5031978	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBCEF) mRNA
1029	14078	27025	0.78	9.0E-09	5031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
1029	14078	27026	0.78	9.0E-09	5031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
4155	14765	30074	0.97	9.0E-09	4757897	NT	Homo sapiens v-raf murine sarcoma viral oncogene homolog B1 (BRAF) mRNA
4155	14765	30074	0.97	9.0E-09	4757897	NT	Homo sapiens v-raf murine sarcoma viral oncogene homolog B1 (BRAF) mRNA
4175	17298	30092	1.02	9.0E-09	4504010	NT	Homo sapiens glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), regulatory (30.8kD) (GLCLR) mRNA
5241	18249	31120	0.93	9.0E-09	AF057177.1	NT	Homo sapiens T-cell receptor gamma V1 gene region
11238	24189		5.51	9.0E-09	AU117241	EST_HUMAN	AU117241 HEMBA1 Homo sapiens cDNA clone HEMBA1000988 5'
3397	18446		1.77	9.0E-09	AJ237744.1	NT	Homo sapiens RIGIR gene (perilin), exon 12
6487	19552	32802	5.65	7.0E-09	9896912	NT	Homo sapiens actin-related protein 3-beta (ARP3BETA), mRNA
8195	21166	34574	15.42	6.0E-09	AI192764.1	EST_HUMAN	q652p01.x1 Soares_fetal_NHL_19W Homo sapiens cDNA clone IMAGE:1743801 3' similar to gb:U11569.6S5 RIBOSOMAL PROTEIN L18 (HUMAN);

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Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8195	21195	34575	15.42	6.0E-69	AI192764.1	EST HUMAN	ge02101.x1 Soares_fetal_lung_NBH-16W Homo sapiens cDNA clone IMAGE:1743801 3' similar to gb1.11568.60S RIBOSOMAL PROTEIN L18 (HUMAN);
8325	22290	35720	1.04	5.0E-69	AA829339.1	EST HUMAN	cd80a03.at NCL CGAP GC81 Homo sapiens cDNA clone IMAGE:1372300 3'
521	13592		1.27	4.0E-69	AB736930.1	EST HUMAN	nm2811.x1 NCL CGAP U3 Homo sapiens cDNA clone IMAGE:2487125 3'
5855	25648	32130	1.38	4.0E-69	BE567063.1	EST HUMAN	bc01344705F1 NIH_MGC_3 Homo sapiens cDNA clone IMAGE:3877641 5'
5943	19029	32223	5	4.0E-69	AI784973.1	EST HUMAN	wh57606.x1 NCL CGAP Kid11 Homo sapiens cDNA clone IMAGE:2384819 3' similar to TR:O55137 O55137 ACYL-CoA THIOESTERASE;
6793	19838	33122	2.77	4.0E-69	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
6793	19838	33123	2.77	4.0E-69	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
9295	22231	35962	0.95	4.0E-69	AU110634.1	EST HUMAN	AU110634 HEMBA1 Homo sapiens cDNA clone HEMBA1006263 5'
388	13499	29432	3.2	3.0E-69	BE258012.1	EST HUMAN	601110371F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3351352 6'
614	13879	26595	2.68	3.0E-69	AF221712.1	NT	Homo sapiens Smad- and Olf-interacting zinc finger protein mRNA, partial cds
2388	15394		0.83	3.0E-69	5729810	NT	Homo sapiens lymphatic vessel endothelial hyaluronan receptor 1 (LYVE-1) mRNA
4618	17639		0.93	3.0E-69	T06234.1	EST HUMAN	y48104.t1 Soares fetal liver spleen INF1.S3 Homo sapiens cDNA clone IMAGE:121016 5'
5296	17639		0.93	3.0E-69	T06234.1	EST HUMAN	y48104.t1 Soares fetal liver spleen INF1.S3 Homo sapiens cDNA clone IMAGE:121015 5'
5314	18330	39813	1.79	3.0E-69	11418185	NT	Homo sapiens acetylase 2, mitochondrial (ACO2) mRNA
5712	18806	31983	0.54	3.0E-69	U14178.1	NT	Human type II IL-1 receptor gene, exon 1B
6972	20195		0.89	3.0E-69	AJ277557.1	NT	Homo sapiens dNT-2 gene for mitochondrial 5'(-)-deoxyribonucleoside (dNT-2) gene, exons 1-5
7038	18370	31257	0.8	3.0E-69	11428786	NT	Homo sapiens sperm surface protein (HSS) mRNA
7597	20558	33918	0.82	3.0E-69	AF095703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
7651	20611	33977	1.52	3.0E-69	U52351.1	NT	Homo sapiens arm-repeat protein NPRAP/neurexigin (CTNND2) mRNA, partial cds
7800	20752	34128	8.4	3.0E-69	AF268075.1	NT	Homo sapiens TRAF6-binding protein TRBP mRNA, complete cds
8715	21683	35111	1.05	3.0E-69	AW138646.1	EST HUMAN	U14-B1F-aw-g-01-0-UI.s1 NCL CGAP Sub3 Homo sapiens cDNA clone IMAGE:2715840 3'
9120	22098		1.38	3.0E-69	AA376399.1	EST HUMAN	EST188807 HSC172 calls 11 Homo sapiens cDNA 5' end similar to similar to ribosomal protein S18
9328	22293	35722	0.5	3.0E-69	8923248	NT	Homo sapiens hypothetical protein FLJ20275 (FLJ20275) mRNA
9788	22708	36164	1.64	3.0E-69	X13223.1	NT	H sapiens mRNA for N-acetylglucosaminidase-(beta 1-4)-galactosyltransferase
9891	22844	36301	59.4	3.0E-69	X05233.1	NT	Human mRNA for calcium-binding protein in macrophages (MRP-14) macrophage migration inhibitory factor (MIF)-related protein
10188	23113	36597	0.71	3.0E-69	5730036	NT	Homo sapiens SEC10 (S. cerevisiae)-like 1 (SEC10L1) mRNA
11003	23969	37493	3.26	3.0E-69	11432120	NT	Homo sapiens ribosomal protein S15c (RPS15A) mRNA
11190	24146		12.51	3.0E-69	AA370399.1	EST HUMAN	EST188807 HSC172 calls 11 Homo sapiens cDNA 5' end similar to similar to ribosomal protein S18
12300	25111		7.34	3.0E-69	11419157	NT	Homo sapiens HGC8.2 protein (HGC8.2) mRNA

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source:	Top Hit Descriptor
120	13477	26411	1.06	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds, and alpha1b protein gene, partial cds
126	13477	26412	1.06	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds, and alpha1b protein gene, partial cds
404	13477	26411	4.75	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds, and alpha1b protein gene, partial cds
404	13477	26412	4.75	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds, and alpha1b protein gene, partial cds
1802	14926	27624	1.46	2.0E-69	BE267857.1	EST_HUMAN	601108444F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:330074.5
2856	15916		3.8	2.0E-69	AA431157.1	EST_HUMAN	z671g02.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781682.5
8000	21688	35289	0.97	2.0E-69	AA114270.1	EST_HUMAN	zm29g01.1 Stralagene pancreas (#837208) Homo sapiens cDNA clone IMAGE:327088.5
1714	14744	27728	2.06	1.0E-68	AF053788.1	NT	Rattus norvegicus brain specific cortactin-binding protein CBP90 mRNA, partial cds
5059	18069		0.73	1.0E-68	BE406094.1	EST_HUMAN	601301284F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635781.5
6168	19243	32474	0.78	1.0E-69	BE602801.1	EST_HUMAN	601676786F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3666832.5
6168	19243	32475	0.78	1.0E-69	BE602801.1	EST_HUMAN	QV6-1T0010-031189-045-c07 T10010 Homo sapiens cDNA
6758	19812	33092	4.09	1.0E-69	AW383969.1	EST_HUMAN	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
6892	20215	33544	1.4	1.0E-68	7662293	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
6892	20215	33545	1.4	1.0E-68	7662293	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
7011	20137	33453	2.78	1.0E-68	AB032973.1	NT	Homo sapiens mRNA for KIAA1147 protein, partial cds
7011	20137	33454	2.78	1.0E-68	AB032973.1	NT	Homo sapiens mRNA for KIAA1147 protein, partial cds
7085	20087	33396	0.62	1.0E-69	BE531007.1	EST_HUMAN	601278632F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610814.5
7085	20087	33397	0.62	1.0E-69	BE531007.1	EST_HUMAN	601278632F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610814.5
10534	23456	36652	4.31	1.0E-69	BE245070.1	EST_HUMAN	TCBAP1E2678 Pediatric pre-B cell acute lymphoblastic leukemia Bayker-HGSC project=TCBA Homo sapiens cDNA clone TCBAP-2678
10534	23456	36953	4.31	1.0E-69	BE245070.1	EST_HUMAN	TCBAP1E2678 Pediatric pre-B cell acute lymphoblastic leukemia Bayker-HGSC project=TCBA Homo sapiens cDNA clone TCBAP-2678
10531	23653	37053	1.49	1.0E-69	AB014607.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
10779	23700	37198	0.53	1.0E-68	BF528428.1	EST_HUMAN	602043782F1 NCL CGAP_Bim67 Homo sapiens cDNA clone IMAGE:4181325.5
11219	24172		2.78	1.0E-69	4504918	NT	Homo sapiens keratin 8 (KRT8) mRNA
12234	25066	38187	1.89	1.0E-69	BF125987.1	EST_HUMAN	60176302F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:4025785.5
12648	25331		6.78	1.0E-69	AI089994.1	EST_HUMAN	wf64608.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2360390.3 similar to contains Alu repetitive element; contains element M1R repetitive element;
2239	15590	26370	1.61	8.0E-70	AA230303.1	EST_HUMAN	nc13d12.1 NCL CGAP_P1 Homo sapiens cDNA clone IMAGE:1008023
4401	17428	30314	2.11	8.0E-70	L7566.1	NT	Homo sapiens DGS1 mRNA, 3' end
1830	14857	27854	2.26	7.0E-70	A1497807.1	EST_HUMAN	im88901.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:216505.3
1830	14857	27855	2.26	7.0E-70	A1497807.1	EST_HUMAN	im88901.x1 NCL CGAP_Bm26 Homo sapiens cDNA clone IMAGE:216505.3
1947	14871	27695	1.87	7.0E-70	AA282955.1	EST_HUMAN	z15f04.1 NCL CGAP_G081 Homo sapiens cDNA clone IMAGE:713239.5
2078	15095		2.97	7.0E-70	5031688	NT	Homo sapiens tumor suppressor deleted in oral cancer-related 1 (DOC-1R) mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4252	17281	30162	4.26	7.0E-70	4757723	NT	Homo sapiens adenylate cyclase 3 (ADCY3) mRNA
5590	18957	31602	5.36	7.0E-70	AB032389.1	NT	Homo sapiens MIST mRNA, partial cds
5550	18957	31603	5.36	7.0E-70	AB032389.1	NT	Homo sapiens MIST mRNA, partial cds
7110	20044	33346	2.38	7.0E-70	AJ000052.1	NT	Homo sapiens gene encoding sulfonyl factor SF1, exons 2-8
8045	20982	34378	0.74	7.0E-70	11417308	NT	Homo sapiens thin immunoglobulin domain protein (myosin) (TTID), mRNA
8774	21741	35162	2.43	7.0E-70	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
8774	21741	35163	2.43	7.0E-70	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
9072	22038	35462	4.26	7.0E-70	M74095.1	NT	Human displacement protein (CCAAT) mRNA
9072	22038	35463	4.26	7.0E-70	M74095.1	NT	Human PBX3 mRNA
9512	22475	35918	2.79	7.0E-70	X58941.1	NT	Human PBX3 mRNA
9512	22475	35920	2.79	7.0E-70	X58941.1	NT	Homo sapiens phospholipid scramblase 1 gene, exon 1 and 5' flanking region
9790	21113	34513	3.51	7.0E-70	AF153715.1	NT	Homo sapiens keratohelin beta 2b, transporin (TRN2), mRNA
8816	21138	34542	2.05	7.0E-70	11525954	NT	Homo sapiens keratohelin beta 2b, transporin (TRN2), mRNA
8816	21138	34543	2.05	7.0E-70	11525954	NT	Homo sapiens glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), catalytic (72.8KD) (GLCLC) mRNA
10014	22941	36407	0.93	7.0E-70	4657624	NT	Homo sapiens NDST4 mRNA for N-deacetylaseN-sulfotransferase 4, complete cds
10661	23583	37079	0.6	7.0E-70	AB038426.1	NT	Homo sapiens NDST4 mRNA for N-deacetylaseN-sulfotransferase 4, complete cds
10661	23583	37080	0.6	7.0E-70	AB038426.1	NT	Homo sapiens NDST4 mRNA for N-deacetylaseN-sulfotransferase 4, complete cds
11923	24804	38366	2.36	7.0E-70	11528319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
11923	24804	38397	2.36	7.0E-70	11528319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
12893	25882	31414	13.53	7.0E-70	Z00040.1	NT	Human kappa-immunoglobulin germ line pseudogene variable region (subgroup V kappa I)
13071	25605	31688	34.82	7.0E-70	Z00040.1	NT	Human kappa-immunoglobulin germ line pseudogene variable region (subgroup V kappa I)
872	13928	26886	2.38	8.0E-70	4602166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease neuro-II, Alzheimer disease) (APP), mRNA
2147	15163	28178	1.7	6.0E-70	M05938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
2519	15519	28542	1.17	6.0E-70	8923899	NT	Homo sapiens CMP-N-acetylneuraminate acid synthase (LOC55507), mRNA
2569	15697	28571	1.76	5.0E-70	7962307	NT	Homo sapiens KIAA0782 gene product (KIAA0782), mRNA
2559	15597	28578	1.76	5.0E-70	7662307	NT	Homo sapiens KIAA0782 gene product (KIAA0782), mRNA
12243	15073	32885	2.52	5.0E-70	BE160034.1	EST HUMAN	MF3-H10487-150200-115-406 H10487 Homo sapiens cDNA
8918	19659	33285	1.24	4.0E-70	T06037.1	EST HUMAN	EST03828 Fetal brain, Striata (cauff836206) Homo sapiens cDNA clone HF8DN25
6961	20186	33510	0.78	4.0E-70	AW793226.1	EST HUMAN	CM4-UM0003-010300-105-g08 UM0003 Homo sapiens cDNA
6961	20186	33511	0.78	4.0E-70	AW793226.1	EST HUMAN	CM4-UM0003-010300-105-g08 UM0003 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1593	14825	27598	1.96	3.0E-70	BE071796.1	EST_HUMAN	RC0-BT0522-071299-011-412 BT0522 Homo sapiens cDNA
1593	14825	27599	1.56	3.0E-70	BE071796.1	EST_HUMAN	RC0-BT0522-071299-011-412 BT0522 Homo sapiens cDNA
5701	18766	31970	0.63	3.0E-70	11430398	NT	Homo sapiens plakophilin 4 (PKP4), mRNA
5701	18766	31971	0.63	3.0E-70	11430398	NT	Homo sapiens plakophilin 4 (PKP4), mRNA
6555	19136	32346	1.1	3.0E-70	AB019175.1	EST_HUMAN	W85003.X1 NCI CGAP CLL1 Homo sapiens cDNA clone IMAGE:2388005 3'
6509	19573	32826	1.27	3.0E-70	BF685233.1	EST_HUMAN	602141661.F1 NIH JMC3_46 Homo sapiens cDNA clone IMAGE:4302806 5'
6509	19573	32827	1.27	3.0E-70	BF685233.1	EST_HUMAN	602141661.F1 NIH JMC3_46 Homo sapiens cDNA clone IMAGE:4302806 5'
10467	23389	36883	0.65	3.0E-70	BE02873.1	EST_HUMAN	h2b1102.x1 NCI CGAP Lu24 Homo sapiens cDNA clone IMAGE:3214419 3'
40	13160	28063	2.14	2.0E-70	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230), complete cds
690	13753	26880	14.23	2.0E-70	N42161.1	EST_HUMAN	Y07410.r1 Soares melanocyte 2N8HM Homo sapiens cDNA clone IMAGE:270522 5' similar to SW.D3HL.RAT P28286 3-HYDROXYISOBUTYRATE DEHYDROGENASE PRECURSOR ;
690	13753	26881	14.23	2.0E-70	N42161.1	EST_HUMAN	Y07410.r1 Soares melanocyte 2N8HM Homo sapiens cDNA clone IMAGE:270522 5' similar to SW.D3HL.RAT P28286 3-HYDROXYISOBUTYRATE DEHYDROGENASE PRECURSOR ;
706	13763	26704	1.39	2.0E-70	A124689.1	EST_HUMAN	q551101.x1 NCI CGAP Pan1 Homo sapiens cDNA clone IMAGE:2004913 3'
1023	14069	27020	1.23	2.0E-70	6823689	NT	Homo sapiens hypochelical protein FLJ20758 (FLJ20758), mRNA
1188	14228	27184	1.73	2.0E-70	7651983	NT	Homo sapiens KIAA0193 gene product (KIAA0193), mRNA
1188	14228	27185	1.73	2.0E-70	7651983	NT	Homo sapiens KIAA0193 gene product (KIAA0193), mRNA
1694	14896	27671	1.53	2.0E-70	AA180093.1	EST_HUMAN	TR.G1041293 G1041293 D2085.5 ;
1694	14896	27672	1.53	2.0E-70	AA180093.1	EST_HUMAN	TR.G1041293 G1041293 D2085.5 ;
1757	14786	27771	1.73	2.0E-70	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
2328	15339		5.47	2.0E-70	AA054010.1	EST_HUMAN	P03345 GAG POLYPROTEIN ;
3641	16884	28600	1.06	2.0E-70	H37988.1	EST_HUMAN	Y55B04.r1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:191509 5'
3833	16873	28774	0.86	2.0E-70	AL153207.2	NT	Novel human gene mapping to chromosome X
4078	17114	30010	5.63	2.0E-70	M68161.1	NT	Human nonmuscle myosin heavy chain-B (MYH10) mRNA, partial cds
4221	17250	30135	0.96	2.0E-70	L78810.1	NT	Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds
4221	17250	30136	0.86	2.0E-70	L78810.1	NT	Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds
5553	18883	31658	9.14	2.0E-70	X72662.1	NT	H. sapiens gene for schwannomin (CSB)
5553	18883	31659	9.14	2.0E-70	X72662.1	NT	H. sapiens gene for schwannomin (CSB)
6328	19393	32640	1.1	2.0E-70	AF310105.1	NT	Homo sapiens NALP1 mRNA, complete cds
6760	19844	33126	3.84	2.0E-70	D12625.1	NT	Human mRNA for NF1 protein isoform (neurofibromin isoform), complete cds
6824	19876	33167	11.3	2.0E-70	AF123074.1	NT	Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6824	19878	33168	11.3	2.0E-70	AF12074.1	NT	Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds
7190	18421	33123	1.44	2.0E-70	11422842	NT	Homo sapiens sialyltransferase 6 (N-acetylglucosaminidase alpha 2,3-sialyltransferase) (SIAT6), mRNA
7633	20593	33566	0.58	2.0E-70	AF268207.1	NT	Homo sapiens cysteine-RNA synthetase mRNA, complete cds, alternatively spliced
8251	21220	34528	5.38	2.0E-70	M21741.1	NT	Human guanine nucleotide-binding protein alpha-subunit gene (G-s-alpha), exons 4 and 5
8584	21632	34652	0.45	2.0E-70	11423589	NT	Homo sapiens amylo-1,6-glucosidase, 4-alpha-glucanotransferase (glycogen debranching enzyme, glycogen storage disease type III) (AGL), mRNA
9007	21973		0.76	2.0E-70	H47959.1	EST_HUMAN	yp79p02.1 Scores fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:183882 5'
9524	22487	35535	0.95	2.0E-70	11528355	NT	Homo sapiens dynein p52 subunit (LOC31184), mRNA
10497	22419	36913	1.42	2.0E-70	AF12303.1	NT	Homo sapiens calcium-binding transporter mRNA, partial cds
10963	23683	37996	0.49	2.0E-70	AB035042.1	NT	Homo sapiens mRNA for KIAA1216 protein, partial cds
11408	24352	37884	3.11	2.0E-70	8823420	NT	Homo sapiens hypothetical protein FLJ20450 (FLJ20450), mRNA
11408	24352	37885	3.11	2.0E-70	8823420	NT	Homo sapiens hypothetical protein FLJ20450 (FLJ20450), mRNA
11956	24835	38431	11.5	2.0E-70	4903520	NT	Homo sapiens eukaryotic translation initiation factor 3', subunit 6 (48KD) (EIF3S6) mRNA
12637	25321	31786	2.64	2.0E-70	11430450	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12637	25321	31787	2.64	2.0E-70	11430450	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
3404	19483		3.08	1.0E-70	4507476	NT	Homo sapiens transglutaminase 3 (E polypeptide, protein-glutamin-gamma-glutamyltransferase) (TGN43) mRNA
9635	22579		0.78	1.0E-70	W85795.1	EST_HUMAN	2F55G05.1 Scores fetal liver spleen INFLS, S1 Homo sapiens cDNA clone IMAGE:418024 5'
10158	23083		0.64	1.0E-70	AA442292.1	EST_HUMAN	2F55G05.1 Scores testis NHT Homo sapiens cDNA clone IMAGE:757444 5'
11281	24231	37757	8.9	1.0E-70	AV738538.1	EST_HUMAN	AV738538 CB Homo sapiens cDNA clone G8193B10 5'
6054	19135	32344	7.1	9.0E-71	AH43870.1	EST_HUMAN	q604f01.x1 Scores testis NHT Homo sapiens cDNA clone IMAGE:738009 3' similar to TR:O14045
6054	19135	32345	7.1	9.0E-71	AH43870.1	EST_HUMAN	q604f01.x1 Scores testis NHT Homo sapiens cDNA clone IMAGE:738009 3' similar to TR:O14045
7231	20253	33587	1.98	9.0E-71	A654903.1	EST_HUMAN	w852d05.x1 NCI CGAP CG8 Homo sapiens cDNA clone IMAGE:2309288 3' similar to TR:P97213 P97213
11852	20253	33587	3.67	9.0E-71	A654903.1	EST_HUMAN	w852d05.x1 NCI CGAP CG8 Homo sapiens cDNA clone IMAGE:2309288 3' similar to TR:P97213 P97213
9425	22386		3.62	8.0E-71	AA171451.1	EST_HUMAN	zz21d11.1 Stralagene neurapithellium #937231 Homo sapiens cDNA clone IMAGE:610101 5' similar to TR:G1143061 G1143061 STRAIN XA34 POL.
10967	23687	37368	0.45	8.0E-71	AW273820.1	EST_HUMAN	x240f01.x1 Scores NFI, T, GSG, S1 Homo sapiens cDNA clone IMAGE:2814049 3' similar to TR:O44730
7501	20562	33923	8.17	7.0E-71	AA442220.1	EST_HUMAN	CB4730 TRANSPLANTABILITY ASSOCIATED PROTEIN 1; 260H06.1 Scores testis NHT Homo sapiens cDNA clone IMAGE:756075 5'

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9028	21992	35412	1.61	7.0E-71	AA105457.1	EST_HUMAN	2891608.c1 Scaveng. fetal liver, spleen, INFLS, S1 Homo sapiens cDNA clone IMAGE:482226 3'
11658	24594	38168	1.78	7.0E-71	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
2220	16234	28288	8.79	5.0E-71	AF056322.1	NT	Homo sapiens SPI100-HMG nuclear autoantigen (SPI100) mRNA, complete cds
4145	17177	30068	1.1	5.0E-71	AW818405.1	EST_HUMAN	QV4-ST0234-181189-037-05 ST0234 Homo sapiens cDNA
5981	18066	32264	2.02	5.0E-71	4502740	NT	Homo sapiens cyclin-dependent kinase 6 (CDK6) mRNA
5819	18973	33162	1.15	5.0E-71	11641408	NT	Homo sapiens keratin, hair, acidic, 7 (KRT7A7), mRNA
7105	20039	33341	0.72	5.0E-71	7682209	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
7167	18398	31243	0.84	5.0E-71	AB033108.1	NT	Homo sapiens mRNA for KIAA1280 protein, partial cds
7167	18398	31244	0.84	5.0E-71	AB033108.1	NT	Homo sapiens mRNA for KIAA1280 protein, partial cds
7353	20523	33671	0.69	5.0E-71	11431590	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA
7753	20706	34075	1.62	5.0E-71	M38106.1	NT	Human neurofibromatosis protein type 1 mRNA, 3' end of cds
7874	20913	34304	0.84	5.0E-71	11528445	NT	Homo sapiens MAGUK protein p57; P-tein Associated with Lmo 2 (LOC51678), mRNA
8007	20945	34340	22.85	5.0E-71	AF072610.1	NT	Homo sapiens transcription factor WSTF mRNA, complete cds
8868	21835	35256	0.81	5.0E-71	5453777	NT	Homo sapiens nuclear factor related to kappa B binding protein (NFRKB) mRNA
8868	21835	35257	0.81	5.0E-71	5453777	NT	Homo sapiens nuclear factor related to kappa B binding protein (NFRKB) mRNA
10271	23106		2.45	5.0E-71	X13467.1	NT	Human PEA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 2)
							Homo sapiens pro-platelet basic protein (includes platelet basic protein, beta-thromboglobulin, connective tissue-activating peptide III, neutrophil-activating peptide-2) (PBPB), mRNA
11325	24275	37603	7.5	5.0E-71	11436514	NT	Homo sapiens similar to hypothetical protein FLJ20168 (H. sapiens) (LOC333325), mRNA
11525	24466	38020	2.01	5.0E-71	11439069	NT	Homo sapiens similar to hypothetical protein FLJ20168 (H. sapiens) (LOC333325), mRNA
12198	25043	38624	1.81	5.0E-71	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
104	13220	26145	1.04	4.0E-71	4507562	NT	Homo sapiens tumor necrosis factor (ligand) superfamily, member 10 (TNFSF10) mRNA
330	13439	26363	96.4	4.0E-71	AF157628.1	NT	Equus caballus glyceraldehyde-3-phosphate dehydrogenase mRNA, partial cds
350	13439	26364	96.4	4.0E-71	AF157628.1	NT	Equus caballus glyceraldehyde-3-phosphate dehydrogenase mRNA, partial cds
2867	15956	28873	1.9	4.0E-71	4505880	NT	Homo sapiens plasminogen (PLG) mRNA
4459	17485	30372	4.75	4.0E-71	AF036322.1	NT	Homo sapiens SPI100-HMG nuclear autoantigen (SPI100) mRNA, complete cds
5022	18036	30921	6.04	4.0E-71	7657602	NT	Homo sapiens putative home-binding protein (SOUL), mRNA
8368	19337		1.34	3.0E-71	AL135734.1	EST_HUMAN	AU135734 PLACE1 Homo sapiens cDNA clone IMAGE:1043663 similar to contains PIR5.B P1RS
							repetitive element;
11051	24014	37538	2.84	3.0E-71	AA567683.1	EST_HUMAN	1481010.61 NC1 GCAP P14 Homo sapiens cDNA clone IMAGE:1043663 similar to contains PIR5.B P1RS
1234	14271	27231	6.56	2.0E-71	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C008
5393	18496	31374	8.35	2.0E-71	D87462.1	NT	Human mRNA for KIAA0272 gene, partial cds
5393	18496	31375	8.35	2.0E-71	D87462.1	NT	Human mRNA for KIAA0272 gene, partial cds
7160	18392	31256	0.97	2.0E-71	AL042439.1	EST_HUMAN	DKFZp340I721_11434 (synonym: hhas3) Homo sapiens cDNA clone IMAGE:1043663 similar to contains PIR5.B P1RS

Table 4
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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9359	22324	35752	0.5	2.0E-71	BF195585.1	EST_HUMAN	7n85c11.x1 NCL_CGAP_OY18 Homo sapiens cDNA clone IMAGE:3571221.3 similar to TR:QB2165
10950	23870	37382	4.19	2.0E-71	AF095703.1	NT	Q9Z165 PUTATIVE FOUR REPEAT ECTON CHANNEL ; Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
10950	23870	37383	4.18	2.0E-71	AF095703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
11053	24016	37539	3.41	2.0E-71	BE018477.1	EST_HUMAN	b681a05.yt NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048754.5 similar to SW:R28B_HUMAN
11907	24788	38377	2.27	2.0E-71	R56526.1	EST_HUMAN	P54727 UV EXCISION REPAIR PROTEIN RAD23 HOMOLOG B ; 377c11.1 Sources breast 2NBH8at Homo sapiens cDNA clone IMAGE:154772.5
12315	28121		7.73	2.0E-71	T95489.1	EST_HUMAN	y646c09.r1 Sources fetal liver spleen 1N1L5 Homo sapiens cDNA clone IMAGE:120520.5
639	13705	26626	1.69	1.0E-71	A0177927.1	EST_HUMAN	oy76d3.61 Sources_senescent_fibroblasts_NHST Homo sapiens cDNA clone IMAGE:1065916.3 similar to contains LOR1.b2 LOR1 repetitive element ;
940	13993	26945	1.68	1.0E-71	A0177927.1	EST_HUMAN	Homo sapiens neuronal cell death-related protein (LOC351616), mRNA
1102	14146	27096	8.21	1.0E-71	AF205890.1	NT	Homo sapiens disabled-2 gene, exons 2 through 13 and complete cds
1343	14378	27347	9.85	1.0E-71	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4k230) mRNA, complete cds
2094	16111	28131	1.29	1.0E-71	AB017007.1	NT	Homo sapiens PMS2L18 mRNA, partial cds
2094	16111	28132	1.29	1.0E-71	AB017007.1	NT	Homo sapiens PMS2L18 mRNA, partial cds
2703	15699	28714	4.81	1.0E-71	T657153	NT	Homo sapiens hairy/enhancer-of-split related with YRPW motif-like (HEYL), mRNA
3610	16955	29572	5.11	1.0E-71	AF248219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3610	16955	29573	5.11	1.0E-71	AF248219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3662	16705	29619	1.18	1.0E-71	BE122850.1	EST_HUMAN	02_15 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA clone 02_15 5 similar to Homo sapiens chromosome 19
3662	16705	29620	1.18	1.0E-71	BE122850.1	EST_HUMAN	02_15 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA clone 02_15 5 similar to Homo sapiens chromosome 19
3754	17298	29707	1.56	1.0E-71	AF218904.1	NT	Homo sapiens atrophin precursor (ATRN) gene, exon 19
4497	17522	30409	2.16	1.0E-71	D28476.1	NT	Human mRNA for KIAA0045 gene, complete cds
4622	17643	30631	0.88	1.0E-71	H23176.1	EST_HUMAN	ym66h10.r1 Sources infant brain TNIB Homo sapiens cDNA clone IMAGE:52528.5
6906	19938	33255	1.39	1.0E-71	11426182	NT	Homo sapiens GCN5 (general control of amino-acid synthesis, yeast, homodog-like 2 (GCN5L2), mRNA
7292	20264	33598	1.28	1.0E-71	AB011131.1	NT	Homo sapiens mRNA for KIAA0559 protein, partial cds
7533	20496	33857	12.87	1.0E-71	U80753.1	NT	Homo sapiens CACGL79 mRNA, partial cds
8486	21454	34871	0.76	1.0E-71	AF105287.1	NT	Homo sapiens glycylproline-6 (GPC6) mRNA, complete cds
8509	21477	34880	2.14	1.0E-71	11425430	NT	Homo sapiens myomesin (M-protein) 2 (169K) (MYOM2), mRNA
8789	21756	35177	4.49	1.0E-71	8922811	NT	Homo sapiens hypophthal protein FLJ10998 (FLJ10998), mRNA

Table 4

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Probe Seq ID NO:	Exon Seq ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database	Top Hit Descriptor
8789	21759	35178	4.49	1.0E-71	8922811	NT	Homo sapiens hypothetical protein FLJ10988 (FLJ10988), mRNA
9584	22548	35997	0.83	1.0E-71	S72393.1	NT	CSNK2A1-eucalase kinase II (CKII) subunit alpha [human, Genomic, 18962 nt]
10367	23280	36787	9.49	1.0E-71	AY007643.1	NT	Homo sapiens cytochrome c oxidase subunit VIII-related protein gene, complete cds
10428	23350	37336	3.08	1.0E-71	AY761217.1	EST_HUMAN	AV01217 MDS Homo sapiens cDNA clone MDSEIA03 5'
10904	23824	37536	1.52	1.0E-71	11433142	NT	Homo sapiens activated leucocyte cell adhesion molecule (ALCAM), mRNA
11137	24097	37536	2.43	1.0E-71	AV761217.1	EST_HUMAN	AV761217 MDS Homo sapiens cDNA clone MDSEIA03 5'
11228	24181	37708	2.12	1.0E-71	11418903	NT	Homo sapiens coagulation factor XIII A1 polypeptide (F13A1), mRNA
11481	24424	37973	2.27	1.0E-71	11417191	NT	Homo sapiens leucyl/tyrosyl aminopeptidase (LNPEP), mRNA
11481	24424	37974	2.27	1.0E-71	11417191	NT	Homo sapiens leucyl/tyrosyl aminopeptidase (LNPEP), mRNA
12881	25349		3.13	1.0E-71	AB011399.1	NT	Homo sapiens gene for AP-B, complete cds
407	13480	28414	1.23	9.0E-72	AB57635.1	EST_HUMAN	wk95g03.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2423188 3' similar to TFR086705 O86705
407	13480	28415	1.23	9.0E-72	AB57635.1	EST_HUMAN	HYPOTHETICAL 38.8 KD PROTEIN, contains Alu repetitive element
6232	19308	32538	0.89	8.0E-72	BF035752.1	EST_HUMAN	HYPOTHETICAL 38.8 KD PROTEIN, contains Alu repetitive element
11444	24387	37627	2.95	8.0E-72	11424480	NT	801468747F1 NIH_MGC_86 Homo sapiens cDNA clone IMAGE:3892481 5'
11444	24387	37628	2.65	8.0E-72	11424480	NT	Homo sapiens nuclear RNA helicase, DEAD variant of DEAD box family (DDXL), mRNA
11444	24387	37629	2.65	8.0E-72	11424480	NT	Homo sapiens nuclear RNA helicase, DEAD variant of DEAD box family (DDXL), mRNA
4139	17170	30056	1.24	7.0E-72	4501866	NT	Homo sapiens nuclear RNA helicase, DEAD variant of DEAD box family (DDXL), mRNA
4139	17170	30057	1.24	7.0E-72	4501866	NT	Homo sapiens selenase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, mRNA
4139	17170	30058	1.24	7.0E-72	4501866	NT	Homo sapiens selenase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, mRNA
7331	20302	33846	2.87	7.0E-72	S41694.1	NT	[pseudogene] PTMAP2=prothymosin alpha [human, Genomic, 1192 nt, segment 2 of 3]
12800	25428		1.52	7.0E-72	F29259.1	EST_HUMAN	HSPD13670 HKM3 Homo sapiens cDNA clone p4000051G02
8727	21695		4.9	8.0E-72	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21 C048
65	13184	28102	4.86	5.0E-72	BF333707.1	EST_HUMAN	QV0-C50010-150900-398-e11 CS0010 Homo sapiens cDNA
65	13184	28103	4.86	5.0E-72	BF333707.1	EST_HUMAN	QV0-C50010-150900-398-e11 CS0010 Homo sapiens cDNA
68	13184	28102	13.05	5.0E-72	BF333707.1	EST_HUMAN	QV0-C50010-150900-398-e11 CS0010 Homo sapiens cDNA
68	13184	28103	13.05	5.0E-72	BF333707.1	EST_HUMAN	QV0-C50010-150900-398-e11 CS0010 Homo sapiens cDNA
1141	14184		2.75	5.0E-72	L11645.1	NT	Homo sapiens alpha-tubulin mRNA, complete cds
7138	20114	33427	1.85	5.0E-72	AU128984.1	EST_HUMAN	AUT28584 NT28P2 Homo sapiens cDNA clone NT28P203751 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8183	21101	34500	0.55	5.0E-72	AA316632.1	EST_HUMAN	EST188312 HCC cell (metastasis to liver in mouse) Homo sapiens cDNA 5' end similar to similar to FAC1
9129	22096	35523	4.14	5.0E-72	AW181274.1	EST_HUMAN	au08003.y1 Schneider fetal brain 00054 Homo sapiens cDNA clone IMAGE:2782564 5' similar to TR:Q39768 Q39768 HYPOPHYSAL 32.4 KD PROTEIN contains element MSR1 repetitive element ;
10320	23244	36724	0.56	5.0E-72	AW724632.1	EST_HUMAN	AW724632 HTB Homo sapiens cDNA clone HTBARKBT 5'
11573	24511	38067	2.74	5.0E-72	BF331571.1	EST_HUMAN	MIR4-BT0598-010600-005-005 BT0598 Homo sapiens cDNA
11573	24511	38068	2.74	5.0E-72	BF331571.1	EST_HUMAN	MIR4-BT0598-010600-005-005 BT0598 Homo sapiens cDNA
12889	25923		2.82	5.0E-72	BE926945.1	EST_HUMAN	GV1-BT0632-260600-342-410 BT0632 Homo sapiens cDNA
4860	17877		1.12	4.0E-72	11034844	NT	Homo sapiens hypothetical protein U1057820.2 (U1057820.2), mRNA
5540	19637	31577	0.75	4.0E-72	AF170025.1	NT	Homo sapiens zinc finger protein ZFP-96 (ZFP96) mRNA, alternatively spliced, complete cds
6709	19765	33045	0.83	4.0E-72	T87947.1	EST_HUMAN	SP.A44282 A44282 RETROVIRUS-RELATED POLYPROTEIN - HUMAN ;
7639	20599	33663	1.28	4.0E-72	572867	NT	Homo sapiens hest domain and RLD 2 (HERC2), mRNA
10143	23069	36545	1.24	4.0E-72	8823669	NT	Homo sapiens hypothetical protein FL20758 (FL20758), mRNA
10758	23678	37174	0.49	4.0E-72	AW836230.1	EST_HUMAN	RC3-LT0023-200100-012-411 LT0023 Homo sapiens cDNA
10759	23679	37175	0.49	4.0E-72	AW836230.1	EST_HUMAN	RC3-LT0023-200100-012-411 LT0023 Homo sapiens cDNA
10786	23707	37208	1.24	4.0E-72	A1248796.1	EST_HUMAN	TR:Q14408 Q14408 SPLICING FACTOR, [1] contains Alu repetitive element contains element L1 repetitive element, 1
11616	24554	38115	1.54	4.0E-72	AA465388.1	EST_HUMAN	aa23109.s1 NCI CGAP GGB1 Homo sapiens cDNA clone IMAGE:814121 3' similar to SW:CPTR_FLAPR P49131 CHLOROPLAST TRIOSE PHOSPHATE TRANSLOCATOR PRECURSOR, 1
11616	24554	38116	1.54	4.0E-72	AA465388.1	EST_HUMAN	aa23109.s1 NCI CGAP GGB1 Homo sapiens cDNA clone IMAGE:814121 3' similar to SW:CPTR_FLAPR P49131 CHLOROPLAST TRIOSE PHOSPHATE TRANSLOCATOR PRECURSOR, 1
11857	27439	38324	5.09	4.0E-72	H79421.1	EST_HUMAN	y228403.t1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:235094 5'
11888	24865	38461	1.72	4.0E-72	T81910.1	EST_HUMAN	y228403.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:109349 3'
12729	25382	31748	4.28	4.0E-72	AJ277546.2	NT	Homo sapiens WEE1 gene for protein kinase and partial ZNF143 gene for zinc finger transcription factor
21	13141	26098	1.98	3.0E-72	5031978	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
904	13959		1.23	3.0E-72	AAT23823.1	EST_HUMAN	ah5806.s1 Soares_testis_NHT Homo sapiens cDNA clone 1310290 3'
1159	14201	27152	5.57	3.0E-72	U16306.1	NT	Human chondroitin sulfate proteoglycan versican V0 splice-variant precursor peptide mRNA, complete cds
1159	14201	27153	5.57	3.0E-72	U16306.1	NT	Human chondroitin sulfate proteoglycan versican V0 splice-variant precursor peptide mRNA, complete cds

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1198	14238	27193	0.71	3.0E-72	U80226.1	NT	Human gamma-aminobutyric acid transaminase mRNA, partial cds
1198	14238	27194	0.71	3.0E-72	U80226.1	NT	Human gamma-aminobutyric acid transaminase mRNA, partial cds
1523	14555	27528	1.45	3.0E-72	BE242161.1	EST_HUMAN	TCAPAE1252 Pediatric acute myelogenous leukemia cell (FAB M1) Baylar-HGSC project=TCAPAE1252
3050	16148	29052	13.29	3.0E-72	AJ229043.1	NT	Human sapiens hypochlorite protein FLJ20985 (FLJ20985), mRNA
3252	16345	29265	2.41	3.0E-72	8923549	NT	Human sapiens hypochlorite protein FLJ20985 (FLJ20985), mRNA
3839	18876	29778	2.52	3.0E-72	S7588.1	NT	TCOR V delta 2-C alpha 1T-cell receptor delta and C alpha fusion gene (alternatively spliced, splicea junction) (human, precursor B-cell line REH, mRNA, partial, 211 nt)
4576	17598	30492	3.77	3.0E-72	11416106	NT	Human sapiens hypochlorite protein (FLJ11127), mRNA
4800	17817	30710	1.31	3.0E-72	AF167572.1	NT	Human sapiens protein methyltransferase (JBP1), mRNA, complete cds
4800	17817	30711	1.31	3.0E-72	AF167572.1	NT	Human sapiens protein methyltransferase (JBP1), mRNA, complete cds
5149	18158	31037	1.02	3.0E-72	AW659677.1	EST_HUMAN	EST371747 MAGE resequences, MAGF Homo sapiens cDNA
5598	18594		1.06	3.0E-72	4759093	NT	Homo sapiens semaphorin W (SEMAW) mRNA
6022	19171	32385	1.91	3.0E-72	AF073987.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 5
6052	19171	32387	1.91	3.0E-72	AF073987.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 5
6290	19392	32900	4.78	3.0E-72	AB026004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
6290	19392	32901	4.78	3.0E-72	AB026004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
6767	19821	33103	3.89	3.0E-72	4826987	NT	Homo sapiens ribosomal protein L3-like (RPL3L), mRNA
7838	20785	34160	1.87	3.0E-72	U80017.1	NT	Homo sapiens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory protein (nrip) and survival motor neuron protein (smn) genes, complete cds
8516	21484	34898	1.07	3.0E-72	5031892	NT	Homo sapiens nuclear receptor subfamily 1, group 1, member 3 (NR1H3), mRNA
10767	23718	37220	7.09	3.0E-72	X98298.1	NT	Homo sapiens CD37 antigen (CD37), mRNA
11912	24793	38393	3.23	3.0E-72	11424081	NT	Homo sapiens CD37 antigen (CD37), mRNA
11912	24793	38394	3.23	3.0E-72	11424081	NT	Homo sapiens CD37 antigen (CD37), mRNA
12078	24950	38545	3.56	3.0E-72	AF190864.1	NT	Homo sapiens ADP-ribosylation factor binding protein GGA3 (GGA3) mRNA, complete cds
6099	19150	32382	1.53	2.0E-72	11428671	NT	Homo sapiens solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2 (SLC13A2), mRNA
9451	22415	35852	0.62	2.0E-72	BF308560.1	EST_HUMAN	601850419F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4731461 5'
9451	22415	35853	0.62	2.0E-72	BF308560.1	EST_HUMAN	601850419F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4731461 5'
11092	24052	37575	2.4	2.0E-72	AA789277.1	EST_HUMAN	428509.s1 Soares_testis_NHT Homo sapiens cDNA clone 1391609 3' similar to gb:X02067 H.sapiens mRNA for TSL RNA pseudogene (HUMAN);
12726	25376	31745	6.47	2.0E-72	AF162714.1	NT	Rattus norvegicus putative phosphate/phosphoenolpyruvate translocator mRNA, complete cds
5881	18950	32136	3.79	1.0E-72	7657676	NT	Homo sapiens vascular protein scaffolding 41 (yeast homolog) (VPS41), mRNA
8711	19767	33045	1.24	1.0E-72	11321576	NT	Homo sapiens myosin, heavy polypeptide 13, skeletal muscle (MYH13), mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6711	19767	33047	1.24	1.0E-72	11321578	NT	Homo sapiens myosin, heavy polypeptide 13, skeletal muscle (MYH13), mRNA
6738	25688	33126	1.3	1.0E-72	AV751618.1	EST_HUMAN	AV751618 NP0 Homo sapiens cDNA clone NPDAIE11 5'
7899	20842	34224	3.72	1.0E-72	BE175434.1	EST_HUMAN	RC4-HT0578-170300-012-002 HT0578 Homo sapiens cDNA
7899	20842	34225	3.72	1.0E-72	BE175434.1	EST_HUMAN	RC4-HT0578-170300-012-002 HT0578 Homo sapiens cDNA
9949	22876	36338	7.79	1.0E-72	AF222742.1	NT	Homo sapiens synaptic glycoprotein SC2 (SC2) mRNA, complete cds
9949	22876	36339	7.79	1.0E-72	AF222742.1	NT	Homo sapiens synaptic glycoprotein SC2 (SC2) mRNA, complete cds
1455	14488	27463	1.53	9.0E-73	AW374968.1	EST_HUMAN	MRO-CT0068-071099-002-111 CT0068 Homo sapiens cDNA
6156	19231	32462	0.94	9.0E-73	11525883	NT	Homo sapiens membrane protein, palmitoylated 3 (MAGUK p55 subfamily member 3) (MPP3), mRNA
11297	24247		18.46	9.0E-73	11424069	NT	Homo sapiens ribosomal protein L13a (RPL13a), mRNA
1039	14094	27035	0.93	8.0E-73	AW071755.1	EST_HUMAN	ws5506.x1 NCI CGAP_Brn28 Homo sapiens cDNA clone IMAGE:2901088 3' similar to TR-Q96050
5660	18756	31824	0.76	8.0E-73	4505708	NT	Q9050 HYPOTHETICAL PROTEIN MJ1656 ;
6724	19780	33059	5.01	8.0E-73	11426469	NT	Homo sapiens phosphatidylinositol 3-kinase, class 2, alpha polypeptide (PIK3C2A) mRNA
8432	21401	34814	2.3	8.0E-73	AF113129.1	NT	Homo sapiens lysosomal homologue (LOC57151), mRNA
						NT	Homo sapiens vectorial ATPase isoform VA08 mRNA, complete cds
9708	22661	36117	7.24	8.0E-73	BE019800.1	EST_HUMAN	bb62a06.y1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3030034 5' similar to gb-XQ-0988_cds1 ACTIN, CYTOPLASMIC 2 (HUMAN); gb-M21495 Mouse cytoskeletal gamma-actin mRNA, complete cds (MOUSE);
10097	23023	36497	2.34	8.0E-73	11528037	NT	Homo sapiens interleukin 12 receptor, beta 1 (IL12RB1), mRNA
10097	23023	36498	2.34	8.0E-73	11528037	NT	Homo sapiens interleukin 12 receptor, beta 1 (IL12RB1), mRNA
12010	24837	38483	3.54	8.0E-73	AF094620.1	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 1 mRNA, complete cds
12765	26418	31735	3.45	8.0E-73	11418169	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
1136	14179	27130	1.3	7.0E-73	8823260	NT	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA
1136	14179	27130	1.3	7.0E-73	8823260	NT	Homo sapiens chromosome 21 segment HS21C008
1312	16365	28285	1	7.0E-73	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C008
4981	17696		1.74	7.0E-73	AL163282.2	NT	Homo sapiens chromosome 21 segment HS21C018
159	13292		2.29	6.0E-73	BE166574.1	EST_HUMAN	QV6-HT0494-020300-137-003 HT0494 Homo sapiens cDNA
7376	20348	33609	3.58	6.0E-73	11422150	NT	Homo sapiens HEL G protein (FAM441), mRNA
5326	18432	31184	2.11	4.0E-73	11422150	NT	Homo sapiens HEL G protein (FAM441), mRNA
1344	14378	27348	1.15	3.0E-73	AW943789.1	EST_HUMAN	GM-CO0044-280100-164-06 CN0044 Homo sapiens cDNA
1879	14904	27604	1.34	3.0E-73	11435913	NT	Homo sapiens home-binding protein (HEBP), mRNA
1879	14904	27605	1.34	3.0E-73	11435913	NT	Homo sapiens home-binding protein (HEBP), mRNA
8656	19909	33204	0.86	3.0E-73	AA1196403.1	EST_HUMAN	zn95a04.s1 Stabagene fetal retina 637202 Homo sapiens cDNA clone IMAGE:566890 3' similar to
9111	22077	35503	0.54	3.0E-73	AV729428.1	EST_HUMAN	gb-Z23064_cds1 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN G (HUMAN);
						EST_HUMAN	AV729428 HTG Homo sapiens cDNA clone HTCAAF071 5'

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Table 4
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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9111	22077	35504	0.54	3.0E-73	AY28428.1	EST_HUMAN	AY28428 HTG Homo sapiens cDNA clone HTCAAF071 5'
11047	24011		1.65	3.0E-73	X09690.1	NT	H. sapiens SH3GLP2 pseudogene, 5' and
13017	25687		1.35	3.0E-73	AI163246.2	NT	Homo sapiens chromosome 21 segment HS21C048
13021	26669		1.97	3.0E-73	AW950081.1	EST_HUMAN	RC3-NN0068-270400-011-c04 NN0068 Homo sapiens cDNA
852	13508	28866	1.9	2.0E-73	AF198697.1	NT	Homo sapiens BASST (BASS1) mRNA, partial cds
1983	14985		2.95	2.0E-73	AW898081.1	EST_HUMAN	RC3-NN0068-270400-011-c04 NN0068 Homo sapiens cDNA
2306	15318		1.58	2.0E-73	U01317.1	NT	Human beta globin region on chromosome 11
3198	16251	26170	3.89	2.0E-73	4502582	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA
							Homo sapiens Parkin domain disease (autosomal recessive, juvenile) 2, parkin (PARK2), transcript variant 3, mRNA
3561	16607	29527	0.77	2.0E-73	76969339	NT	Homo sapiens Parkin domain disease (autosomal recessive, juvenile) 2, parkin (PARK2), transcript variant 3, mRNA
3561	16607	29528	0.77	2.0E-73	76969339	NT	Mus musculus rhoGAP-interacting citron kinase (Crik) mRNA, complete cds
6577	19637	32902	0.7	2.0E-73	AF068824.1	NT	Mus musculus rhoGAP-interacting citron kinase (Crik) mRNA, complete cds
6577	19637	32903	0.77	2.0E-73	AF068824.1	NT	Homo sapiens mRNA for KIAA1561 protein, partial cds
6627	19685	32964	6.38	2.0E-73	AB046811.1	NT	Homo sapiens interleukin 4 receptor (IL4R), mRNA
6958	19911	33206	1.32	2.0E-73	11431471	NT	Homo sapiens interleukin 4 receptor (IL4R), mRNA
6958	19911	33207	1.32	2.0E-73	11431471	NT	Human peripheral myelin protein 22 mRNA, complete cds
8092	21028	34427	0.89	2.0E-73	M94048.1	NT	Homo sapiens mRNA for KIAA1932 protein, partial cds
8099	21035	34435	0.77	2.0E-73	AB037790.1	NT	Gallus gallus Dact2 protein (Dact2) mRNA, complete cds
9890	22943	36268	0.55	2.0E-73	AF198349.1	NT	Gallus gallus Dact2 protein (Dact2) mRNA, complete cds
9890	22943	36300	0.55	2.0E-73	AF198349.1	NT	Homo sapiens glutathione synthetase (GSS) mRNA
10788	23709	37211	1.12	2.0E-73	4504168	NT	Homo sapiens superinilin (SVIL), transcript variant 1, mRNA
10693	23763	37284	1.69	2.0E-73	11496980	NT	Homo sapiens superinilin (SVIL), transcript variant 1, mRNA
10693	23763	37285	1.69	2.0E-73	11496980	NT	Homo sapiens KIAA1080 protein; Golgi-associated, gamma-adaptin ear containing, ARF-binding protein 2 (KIAA1080), mRNA
11107	24067	37589	1.49	2.0E-73	11431598	NT	Homo sapiens galactosylceramidase (Krabbe disease) (GALC), mRNA
11395	24341	37872	2.64	2.0E-73	4557612	NT	Homo sapiens galactosylceramidase (Krabbe disease) (GALC), mRNA
11395	24341	37873	2.64	2.0E-73	4557612	NT	Homo sapiens mRNA for KIAA1059 protein, partial cds
11420	24364	37899	1.81	2.0E-73	AB025982.1	NT	RC3-NN0066-270400-011-c04 NN0066 Homo sapiens cDNA
12581	14685		1.81	2.0E-73	AW898081.1	EST_HUMAN	AU121585 MAMMA1 Homo sapiens cDNA clone MAMMA1000490 5'
1798	14627	27814	2.81	1.0E-73	AF192585.1	EST_HUMAN	CNN1-IT2082-11160-042-H10 HT2082 Homo sapiens cDNA
6485	19559	32810	1.2	1.0E-73	BE151283.1	EST_HUMAN	qg01507.1 Soares, testis NHT Homo sapiens cDNA clone IMAGE:180937 5' similar to contains element MER22 repetitive element;
6577	22763	39244	1.47	1.0E-73	A147427.1	EST_HUMAN	

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Probe Seq ID NO:	Exon Seq ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11778	23334	37455	2.1	1.0E-73	BE38477.1	EST_HUMAN	601270071F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3617105 5'
1742	13803	26742	1.87	8.0E-74	4557428.NT	NT	Homo sapiens CD39-like 4 (CD39L4) mRNA
6021	19104	32306	1.94	8.0E-74	S83194.1	NT	Cs24/calmodulin-dependent protein kinase IV kinase isoform [rats, brain, mRNA, 3429 nt]
6021	19104	32307	1.84	8.0E-74	S83194.1	NT	Cs24/calmodulin-dependent protein kinase IV kinase isoform [rats, brain, mRNA, 3429 nt]
1966	14987	27989	1966	4.43	7.0E-74	AJ001689.1	Homo sapiens NKGD2 gene, exon 10
3339	16390	29311	2.01	7.0E-74	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
9598	22802	36051	2.25	7.0E-74	BE967432.1	EST_HUMAN	601649284F1 NIH_MGC_73 Homo sapiens cDNA clone IMAGE:3932897 5'
12784	25417	31734	4.84	7.0E-74	BE268305.1	EST_HUMAN	601191927F1 NIH_MGC_73 Homo sapiens cDNA clone IMAGE:3533955 5'
1124	14169	27120	5.19	6.0E-74	AF106907.1	NT	Homo sapiens ST64 gene, partial cds; PST and hypothetical protein genes, complete cds; and S171 gene, partial cds
1631	14684	27639	1.03	6.0E-74	AW263177.1	EST_HUMAN	h17g907.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2700636 3'
2024	15333	28357	7.92	6.0E-74	BE398260.1	EST_HUMAN	601283521F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605463 5'
2324	15335	28358	7.92	6.0E-74	BE398260.1	EST_HUMAN	601283521F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605463 5'
2875	15584	28852	1.12	6.0E-74	AW014039.1	EST_HUMAN	UI-H810-abh-h-03-Q-U1 st NCI CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2709385 3'
2875	15584	28853	1.12	6.0E-74	AW014039.1	EST_HUMAN	UI-H810-abh-h-03-Q-U1 st NCI CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2709385 3'
3726	16769	26670	1.28	6.0E-74	BE048848.1	EST_HUMAN	h54e11.x1 NCI CGAP_Kid1 Homo sapiens cDNA clone IMAGE:3132332 3'
3726	16768	26660	1.28	6.0E-74	BE048848.1	EST_HUMAN	h54e11.x1 NCI CGAP_Kid1 Homo sapiens cDNA clone IMAGE:3132332 3'
5065	18075	30955	4.18	6.0E-74	4759135.NT	NT	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 11 (S.cerevisiae CHL1-like helicase) (DDX11) mRNA
5065	18075	30956	4.18	6.0E-74	4759135.NT	NT	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 11 (S.cerevisiae CHL1-like helicase) (DDX11) mRNA
5439	18541	31451	3.08	6.0E-74	11058013.NT	EST_HUMAN	Homo sapiens actin filament associated protein (AFAP), mRNA
906	13961	28917	2.06	5.0E-74	AW020986.1	EST_HUMAN	d17d05.Y1 Morton Fatal Cochlear Homo sapiens cDNA clone IMAGE:2483704 5'
2713	15707	31492	3.68	5.0E-74	AW362795.1	EST_HUMAN	PMO-CT02895-271095-001-H07 CT0289 Homo sapiens cDNA
5481	18581	31492	1.76	5.0E-74	11425417.NT	NT	Homo sapiens phosphatidylinositol glycan, class L (PIGL), mRNA
5987	18976	32168	12.05	5.0E-74	X89870.1	NT	H. sapiens mRNA for TPCR18 protein
5838	18024	32218	7.23	5.0E-74	4507898.NT	NT	Homo sapiens VAMP (vesicle-associated membrane protein)-associated protein A (33kD) (VAPA) mRNA, and translated products
6013	19098	32296	2.71	5.0E-74	11431471.NT	NT	Homo sapiens interferon 4 receptor (L4R), mRNA
6013	19098	32297	2.71	5.0E-74	11431471.NT	NT	Homo sapiens interferon 4 receptor (L4R), mRNA
7080	20701	33412	2.18	5.0E-74	7662263.NT	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
7932	20701	33412	0.54	5.0E-74	7662263.NT	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
8371	21340	34751	3.05	5.0E-74	11345483.NT	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
41082	20048	37570	4.06	5.0E-74	U09420.1	NT	Homo sapiens hypothetical protein FLJ13222 (FLJ13222), mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLASTE Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11087	24048	37571	4.08	5.0E-74	Y06420.1	NT	H sapiens mRNA for HIP-1
276	13374	26303	1.85	4.0E-74	D87975.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
853	13909	26867	5.8	4.0E-74	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
1979	15000	28002	2.21	4.0E-74	AB028988.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
1979	15000	28003	2.21	4.0E-74	AB028988.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
2086	15103	28120	2.38	4.0E-74	4506192	NT	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 1 (PSMB1) mRNA
2086	15103	28121	2.38	4.0E-74	4506192	NT	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 1 (PSMB1) mRNA
2142	15159	28175	1.51	4.0E-74	AB032994.1	NT	Homo sapiens mRNA for KIAA1168 protein, partial cds
2434	15441	28459	0.91	4.0E-74	AJ006978.1	NT	Homo sapiens PIP gene
3107	18154	28078	5.45	4.0E-74	AJ006978.1	NT	Homo sapiens PIP gene
4091	17125	30018	1.23	4.0E-74	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
4587	17609	30504	2.06	4.0E-74	7662183	NT	Homo sapiens KIAA0559 gene product (KIAA0559), mRNA
4848	17697	30554	0.99	4.0E-74	Z17227.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
5055	19067	30948	0.74	4.0E-74	AB040906.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
8895	21861		21.61	3.0E-74	AA300378.1	EST_HUMAN	EST13131 Thymus tumor III Homo sapiens cDNA 5' end similar to similar to ribosomal protein L37
9727	22755	36208	2.57	3.0E-74	M78984.1	EST_HUMAN	EST10132 Subtracted Hippocampus, Striatum (cat. #93205) Homo sapiens cDNA clone HICPF61
10703	23625	37122	2.69	3.0E-74	AA601493.1	EST_HUMAN	nt17405.61 NC1 CGAP Phet1 Homo sapiens cDNA clone IMAGE:1100984 3'
859	14012	28955	58.94	2.0E-74	7689491	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPD), mRNA
959	14012	28958	58.94	2.0E-74	7689491	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPD), mRNA
1178	14220	27178	0.9	2.0E-74	AF020092.1	NT	Human endogenous retrovirus HERV-K:147D
1249	14285	27251	1.32	2.0E-74	AB050528.1	EST_HUMAN	w61607.x1 NC1 CGAP Lu28 Homo sapiens cDNA clone IMAGE:2547204 3' similar to SW:GG95_HUMAN
1599	14631	27606	3.54	2.0E-74	4885188	NT	Q08379 GOLGIN-95, contains element MER22 repetitive element.
1599	14631	27607	3.54	2.0E-74	4885188	NT	Homo sapiens epidermal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene homolog) (EGFR) mRNA
2008	15608	28632	3.02	2.0E-74	AL557280.1	EST_HUMAN	homolog (EGFR) mRNA
5042	18055	30633	3.67	2.0E-74	AL355092.1	NT	P72.1, 15, G11.1, tumor2 Homo sapiens cDNA 3'
5042	18055	30634	3.67	2.0E-74	AL355092.1	NT	Novel human gene mapping to chromosome 22
5048	18050	30638	0.93	2.0E-74	J02963.1	NT	Novel human gene mapping to chromosome 22
5895	25647	32174	2.03	2.0E-74	BE711134.1	EST_HUMAN	Human platelet glycoprotein IIb mRNA, 3' end
							RC8-HT0878-220500-011-C03 HT0878 Homo sapiens cDNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF-SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5999	25650	32280	1.93	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/INY-CO-38), mRNA
5999	25650	32281	1.93	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/INY-CO-38), mRNA
6077	25650	32280	2.58	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/INY-CO-38), mRNA
6077	25650	32281	2.58	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/INY-CO-38), mRNA
7310	20281	34621	1.14	2.0E-74	BF030788.1	EST_HUMAN	Homo sapiens PDZ-73 protein (PDZ-73/INY-CO-38), mRNA
8272	21241	34652	1.35	2.0E-74	AB0037816.1	NT	601557524F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3827549.5
9737	22765	36220	8.08	2.0E-74	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
12058	24891	36528	1.72	2.0E-74	5453963	NT	Homo sapiens chromosome 21 segment HS21C004
12521	25232		3.11	2.0E-74	AA196181.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C004
55	13175	26098	2.22	1.0E-74	7657334	NT	Homo sapiens chromosome 21 segment HS21C004
337	13426	26348	3.95	1.0E-74	AW819405.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C004
500	13572	29494	1.1	1.0E-74	8622829	NT	Homo sapiens chromosome 21 segment HS21C004
507	13578	29499	8.18	1.0E-74	X02244.1	NT	Homo sapiens beta 2 gene
603	13670	28594	2.15	1.0E-74	4508020	NT	Homo sapiens zinc finger protein 259 (ZNF259) mRNA
1001	14052	27004	2.21	1.0E-74	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C004
2235	15249	28273	3.56	1.0E-74	AB002059.1	NT	Homo sapiens DNA for Human P200, complete cds
3156	16212	29127	2.83	1.0E-74	4759697	NT	Homo sapiens mannosidase, alpha, class 2A, member 1 (MAN2A1), mRNA
3943	16983	29898	0.79	1.0E-74	4504118	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
3943	16983	29899	0.79	1.0E-74	4504118	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
3992	17032	29941	5.75	1.0E-74	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C008
4092	17126	30019	0.96	1.0E-74	BE083080.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C008
4296	17326	30205	0.71	1.0E-74	BE467769.1	EST_HUMAN	h273108.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3213963.3 similar to WP-B0511.12
5217	18226	31100	1.36	1.0E-74	D83327.1	NT	CE17351.1
6963	19616	33210	0.97	1.0E-74	M85914.1	NT	Homo sapiens DGRR1 mRNA, partial cds
7888	20832	34211	1.87	1.0E-74	M85914.1	NT	Homo sapiens DGRR1 mRNA, partial cds
8391	21360	34767	1.1	1.0E-74	BE549105.1	EST_HUMAN	Homo sapiens DGRR1 mRNA, partial cds
8391	21360	34768	1.1	1.0E-74	BE549105.1	EST_HUMAN	Homo sapiens DGRR1 mRNA, partial cds
9157	22123	35552	3.86	1.0E-74	AJ214652.1	NT	Homo sapiens DGRR1 mRNA, partial cds
9186	22152	35581	0.71	1.0E-74	AF351951.1	EST_HUMAN	Homo sapiens DGRR1 mRNA, partial cds
10600	23622	37015	0.95	1.0E-74	AJ251550.1	NT	Homo sapiens DGRR1 mRNA, partial cds
10600	23622	37016	0.95	1.0E-74	AJ251550.1	NT	Homo sapiens DGRR1 mRNA, partial cds
10847	23767	37266	1.51	1.0E-74	11420549	NT	Homo sapiens DGRR1 mRNA, partial cds
12100	24971		1.5	1.0E-74	AB007941.1	NT	Homo sapiens DGRR1 mRNA, partial cds

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12154	25012	38816	3.9	1.0E-74	11417858	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA
12235	25067		7.14	1.0E-74	11417858	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA
12648	25456		1.52	1.0E-74	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2652	15646		6.34	8.0E-75	AF176228.1	NT	Homo sapiens DNA cytosine-5 methyltransferase 3B (DNMT3B) mRNA, complete cds
12543	25266		1.81	8.0E-75	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
2329	16340	28392	1.16	6.0E-76	AB17415.1	EST_HUMAN	wk38a08.x1 NCI CGAP_P122 Homo sapiens cDNA clone IMAGE:2417854 3' similar to gb:M14122_cds4
5201	18210	31064	0.91	5.0E-76	BE641306.1	EST_HUMAN	RETROVIRUS-RELATED POL POLYPROTEIN (HUMAN);
8075	21012	34411	0.51	5.0E-76	AA573448.1	EST_HUMAN	MRC-SN0040-080600-008-g08 SN0040 Homo sapiens cDNA
8075	21012	34411	0.51	5.0E-76	AA573448.1	EST_HUMAN	nl69d03.31 NCI CGAP_C03 Homo sapiens cDNA clone IMAGE:1028633 3'
9299	22229	35654	1.13	5.0E-76	AA573448.1	EST_HUMAN	nl69d03.31 NCI CGAP_C03 Homo sapiens cDNA clone IMAGE:1028633 3'
9472	22436	35874	0.64	5.0E-76	AA132811.1	EST_HUMAN	801128008F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:2698665 5'
6549	22512	35961	0.89	5.0E-76	BE561653.1	EST_HUMAN	z017608.r1 Stratagene colon (R637204) Homo sapiens cDNA clone IMAGE:587174 5'
6549	22512	35962	0.89	5.0E-76	BE561653.1	EST_HUMAN	601346909F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3687458 5'
9728	22766	35209	1.42	5.0E-76	BF600254.1	EST_HUMAN	602186616T1 NIH_MGC_49 Homo sapiens cDNA clone IMAGE:4288738 3'
10594	23516	37007	2.9	5.0E-76	A1636623.1	EST_HUMAN	HY161212.x1 NCI CGAP_C08 Homo sapiens cDNA clone IMAGE:2242380 3' similar to TR:P97361 P97361
112	13223	26147	1.68	4.0E-76	BE091333.1	EST_HUMAN	QV1-BT0632-210200-079-e02 BT0632 Homo sapiens cDNA
459	13523	26147	2.66	4.0E-76	N36757.1	EST_HUMAN	Y680108.r1 Source melanocyte 2NBHM Homo sapiens cDNA clone IMAGE:269055 5'
1760	14809	27766	1.73	4.0E-75	AW89720.1	EST_HUMAN	GMP-NN0057/150400-335-e11 NN0057 Homo sapiens cDNA
2861	15921	28841	4.5	4.0E-75	BE409464.1	EST_HUMAN	601303808F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638344 5'
3512	16568	28482	0.93	4.0E-75	8922837	NT	Homo sapiens hypothetical protein FLJ10747 (FLJ10747), mRNA
5007	18703	31859	0.65	4.0E-75	11417946	NT	Homo sapiens NIPSNAP_C, elegans, homolog 1 (NIPSNAP1), mRNA
5007	18703	31860	0.65	4.0E-75	11417946	NT	Homo sapiens NIPSNAP_C, elegans, homolog 1 (NIPSNAP1), mRNA
6400	19468	32716	6.35	4.0E-75	5579457	NT	Homo sapiens eukaryotic translation initiation factor 3, subunit 8 (10KD) (EIF3S8), mRNA
6923	19973	33270	1.61	4.0E-75	11417946	NT	Homo sapiens NIPSNAP_C, elegans, homolog 1 (NIPSNAP1), mRNA
6923	19973	33271	1.61	4.0E-75	11417946	NT	Homo sapiens NIPSNAP_C, elegans, homolog 1 (NIPSNAP1), mRNA
11044	24018	37554	15.05	4.0E-75	7698505	NT	Homo sapiens myosin, heavy polypeptide 1, skeletal muscle, adult (MYH1), mRNA
1004	14055	27007	4.38	3.0E-76	AF167623.1	NT	Homo sapiens HTRA serine protease (PRSS11) gene, complete cds
1005	14055	27007	3.22	3.0E-76	AF167623.1	NT	Homo sapiens HTRA serine protease (PRSS11) gene, complete cds
1853	14879	27875	2.36	3.0E-76	AB011163.1	NT	Homo sapiens mRNA for KIAA0881 protein, partial cds
2430	15437	28454	5.12	3.0E-75	4759153	NT	Homo sapiens synaptonemal-associated protein, 28KD (SNAP28) mRNA
3034	16092	29010	1.06	3.0E-75	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3203	16258	29177	1.13	3.0E-75	AB011153.1	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
3361	16411	28334	0.95	3.0E-75	M72393.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
3361	16411	28335	0.95	3.0E-75	M72393.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
3752	16794	29705	0.78	3.0E-75	M72393.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
4197	17228	30118	1.03	3.0E-75	DB7675.1	NT	Homo sapiens cDNA for amyloid precursor protein, complete cds
4466	17492	30379	0.71	3.0E-75	7662421	NT	Homo sapiens KIAA0971 protein (KIAA0971), mRNA
5323	18426	31179	1.15	3.0E-75	11420566	NT	Homo sapiens adaptor-related protein complex 1, sigma 2 subunit (AP1S2), mRNA
5323	18426	31180	1.15	3.0E-75	11420566	NT	Homo sapiens adaptor-related protein complex 1, sigma 2 subunit (AP1S2), mRNA
6657	19714	32691	0.51	3.0E-75	AF123074.1	NT	Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds
6657	19714	32692	0.51	3.0E-75	AF123074.1	NT	Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds
6935	20159	33479	1.76	3.0E-75	11526319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
6935	20159	33480	1.76	3.0E-75	11526319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
7342	20313	33656	4.47	3.0E-75	7662208	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
7342	20313	33657	4.47	3.0E-75	7662208	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
7884	20828	34204	2.82	3.0E-75	4855632	NT	Homo sapiens Oncogene TIM (TIM) mRNA
7884	20828	34205	2.82	3.0E-75	4855632	NT	Homo sapiens Oncogene TIM (TIM) mRNA
8336	22301	35730	1.21	3.0E-75	11420804	NT	Homo sapiens snail 1 (trossophila homolog), zinc finger protein (SNAIL), mRNA
10037	22964	36431	0.85	3.0E-75	11420223	NT	Homo sapiens Drosophila Kich like protein (DKELCHL), mRNA
10908	23828	37341	4.16	3.0E-75	11438430	NT	Homo sapiens synuclein, alpha (non A4 component of amyloid precursor) (SNCA), mRNA
12085	24957	38552	1.73	3.0E-75	6715588	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 1 (BIG1), mRNA
12085	24957	38553	1.73	3.0E-75	6715588	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 1 (BIG1), mRNA
5756	18830		1.41	2.0E-75	AV734680.1	EST_HUMAN	AV734680 cDNA Homo sapiens cDNA clone IMAGE:1915898 3' similar to TRC:Q66386 Q66386
9103	22069	35465	2.56	2.0E-75	AB11783.1	EST_HUMAN	q91602.x1 NCL CGAP_Kid5 Homo sapiens cDNA clone IMAGE:2632707 3' similar to contains PTR7.11
2311	18322	28345	7.79	1.0E-75	AW168135.1	EST_HUMAN	q91602.x1 NCL CGAP_Li4 Homo sapiens cDNA clone IMAGE:2632707 3' similar to contains PTR7.11
2357	18015	28943	3.35	1.0E-75	XG2221.1	NT	PTR7 repetitive element
4718	17738	30630	0.95	1.0E-75	BE275301.1	EST_HUMAN	H.sapiens ERCC2 gene, exons 1 & 2 (partial)
5224	18232	31107	0.7	1.0E-75	BE864192.1	EST_HUMAN	H.sapiens ERCC2 gene, exons 1 & 2 (partial)
7843	20790	34165	0.78	1.0E-75	BE082528.1	EST_HUMAN	601157693F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3504272 5'
7843	20790	34166	0.78	1.0E-75	BE082528.1	EST_HUMAN	601437150F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922303 5'
7843	20790	34167	0.78	1.0E-75	BE082528.1	EST_HUMAN	RC5-BT0640-020300-031-H03 BT0640 Homo sapiens cDNA
7843	20790	34168	0.78	1.0E-75	BE082528.1	EST_HUMAN	RC5-BT0640-020300-031-H03 BT0640 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed In Bone Marrow

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8767	21724		12.42	1.0E-75	AA396270.1	EST_HUMAN	z157N03.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:720185 3' similar to gb:M13932.405
9783	22724	30179	4.03	1.0E-75	BF313645.1	EST_HUMAN	RIBOSOMAL PROTEIN S17 (HUMAN);
9783	22724	30180	4.03	1.0E-75	BF313645.1	EST_HUMAN	601900234F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4126678 5'
11229	24182		3.79	1.0E-75	AA684377.1	EST_HUMAN	601900234F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4126678 5'
11428	24372	37910	2.13	1.0E-75	AF223391.1	NT	ac77608.s1 Stratiotes lung (8937210) Homo sapiens cDNA clone IMAGE:868596 3'
12438	18232	31107	1.72	1.0E-75	BE684182.1	EST_HUMAN	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
46	13166	26070	2.23	9.0E-76	AB52648.1	EST_HUMAN	601437130F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3022303 5'
46	13166	26071	2.23	9.0E-76	AB52648.1	EST_HUMAN	601437130F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3022303 5'
2425	15452		0.96	9.0E-76	AA702415.1	EST_HUMAN	TRAP1 ;
10261	23186	36870	37.43	9.0E-78	MT2837.1	NT	285507.51 Soares fetal_liver_cspen_INFLS_S1 Homo sapiens cDNA clone IMAGE:447641 3'
937	13980	26941	0.98	8.0E-76	4504374	NT	Human testin Heavy subunit mRNA, complete cds
937	13980	26942	0.98	8.0E-76	4504374	NT	Homo sapiens H factor 1 (complement) (HF1) mRNA
2921	15979	26904	1.28	8.0E-76	7706724	NT	Homo sapiens H factor 1 (complement) (HF1) mRNA
6295	19387	32608	4.78	8.0E-76	11421442	NT	Homo sapiens mediator (Sur2) mRNA
7731	20686	34048	1.41	8.0E-76	11435215	NT	Homo sapiens LIM domain kinase 1 (LIMK1) mRNA
7816	20765	34141	0.97	8.0E-76	11418212	NT	Homo sapiens serine/threonine kinase 2 (STRK2) mRNA
8639	21607	35030	0.64	8.0E-76	11416861	NT	Homo sapiens mitochondrial carrier family protein (LOC559572), mRNA
9463	22417	35955	0.45	8.0E-76	AB046764.1	NT	Homo sapiens AIM-1 protein (LOC511151), mRNA
10744	23068	37161	1.41	8.0E-76	MT3792.1	NT	Homo sapiens mRNA for KIAA1544 protein, partial cds
11028	23981	37518	4.09	8.0E-76	10442821	NT	Human adenocarcinoma desminase (ADA) gene, complete cds
12767	25408		2.29	8.0E-76	11417862	NT	Homo sapiens baculoviral IAP repeat-containing 6 (BIRC6) mRNA
777	13836	26782	1.41	7.0E-76	5016092	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
3305	16356	29277	28.85	7.0E-76	AF056460.1	NT	Homo sapiens diphosphonamide dehydrogenase (E3 component of pyruvate dehydrogenase complex, 2-oxo-glutarate complex, branched chain keto acid dehydrogenase complex) (DLD) mRNA
3311	16364	29284	8.23	7.0E-76	4505052	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
4368	17427	30311	4.52	7.0E-76	4507184	NT	Homo sapiens lymphocyte antigen 75 (LY75) mRNA, and translated products
4369	17427	30312	4.52	7.0E-76	4507184	NT	Homo sapiens septipilin reductase (7,8-dihydropterin:NADP+ oxidoreductase) (SPR) mRNA
12381	14274		12.96	6.0E-76	BE386263.1	EST_HUMAN	Homo sapiens septipilin reductase (7,8-dihydropterin:NADP+ oxidoreductase) (SPR) mRNA
11793	23948	37489	2.36	6.0E-76	BE273201.1	EST_HUMAN	601312019F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3658757 5'
							601142283F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506029 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1960	14982	27983	8.97	5.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
1960	14982	27984	8.97	5.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
1960	14982	27985	8.97	5.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
3220	18276	29189	1.01	4.0E-76	BE184096.1	EST_HUMAN	QV3-BN0047-270700-289-406 BN0047 Homo sapiens cDNA
5342	18447	31200	1.08	4.0E-76	BE783412.1	EST_HUMAN	601471725F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874470 5'
10384	23306	36783	6.69	4.0E-76	D81625.1	EST_HUMAN	HUM178G01B Human fetal brain (T Fujiiwara) Homo sapiens cDNA clone GEN-178G01 5'
10384	23306	36784	6.69	4.0E-76	D81625.1	EST_HUMAN	HUM178G01B Human fetal brain (T Fujiiwara) Homo sapiens cDNA clone GEN-178G01 5'
630	13695	26814	1.94	3.0E-76	BF516262.1	EST_HUMAN	U1H-BW1-anz-bb-04-0-U1.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083862 3'
630	13695	26815	1.94	3.0E-76	BF516262.1	EST_HUMAN	U1H-BW1-anz-bb-04-0-U1.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083862 3'
1603	14635	27611	9.36	3.0E-76	4503476	NT	Homo sapiens eukaryotic translation elongation factor 1 beta 2 (EEF1B2) mRNA
1603	14635	27612	9.36	3.0E-76	4503476	NT	Homo sapiens eukaryotic translation elongation factor 1 beta 2 (EEF1B2) mRNA
3442	16489	28407	5.03	3.0E-76	BF375693.1	EST_HUMAN	RC5-ST0300-180100-033-403 ST0300 Homo sapiens cDNA
3442	16489	28408	5.03	3.0E-76	BF375693.1	EST_HUMAN	RC5-ST0300-180100-033-403 ST0300 Homo sapiens cDNA
4105	17139	30034	14.72	3.0E-76	BE348693.1	EST_HUMAN	KIAA0792 PROTEIN.
5301	18304	31165	0.68	3.0E-76	AV70298.1	EST_HUMAN	HSC2D042 normalized infant brain cDNA Homo sapiens cDNA clone ADBBS302 5'
6309	18327	38812	2.12	3.0E-76	Z41314.1	EST_HUMAN	z41307.r1 Stratiene pancreas (#637208) Homo sapiens cDNA clone IMAGE:562524 5' similar to
5822	18912	32095	1	3.0E-76	AA106811.1	EST_HUMAN	gbl-132978 MIXED LINEAGE KINASE 1 (HUMAN);
6102	19181	32400	0.71	3.0E-76	AW027705.1	EST_HUMAN	hw75c05.x1 Soares thymus, NHFT1 Homo sapiens cDNA clone IMAGE:2935386 3'
6504	19568	32820	8.03	3.0E-76	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
8450	21458	34876	0.83	3.0E-76	N42871.1	EST_HUMAN	y20g10.r1 Soares melanocyte 2N5HM Homo sapiens cDNA clone IMAGE:271842 5'
10074	23001	36471	3.32	3.0E-76	AW298353.1	EST_HUMAN	xs49K01.x1 NCI_CGAP_Ki671 Homo sapiens cDNA clone IMAGE:2773009 3'
10098	23024	36499	1.08	3.0E-76	AA442309.1	EST_HUMAN	z54d4r11.1 Soares testis, NHT Homo sapiens cDNA clone IMAGE:757461 5'
10098	23024	36500	1.08	3.0E-76	AA442309.1	EST_HUMAN	z54d4r11.1 Soares testis, NHT Homo sapiens cDNA clone IMAGE:757461 5'
12143	23760	31519	2.43	3.0E-76	AW967984.1	EST_HUMAN	EST1380359 IMAGE resequences, MAG1 Homo sapiens cDNA
12248	25971	31301	4.4	3.0E-76	AW956455.1	EST_HUMAN	EST1386525 IMAGE resequences, MAG2 Homo sapiens cDNA
281	13376	26305	1.46	2.0E-76	D84295.1	NT	Human mRNA for possible protein TPRDII, complete cds
342	13431	26352	2.6	2.0E-76	D84295.1	NT	Human mRNA for possible protein TPRDII, complete cds
342	13431	26353	2.6	2.0E-76	D84295.1	NT	Human mRNA for possible protein TPRDII, complete cds
461	13534	26873	1.14	2.0E-76	4557662	NT	Homo sapiens immunoglobulin (CD79A) binding protein 1 (GGBP1) mRNA
562	13669	26873	1.12	2.0E-76	4503944	NT	Homo sapiens glucagon (GCG) mRNA
1032	14078	27031	1.37	2.0E-76	4796053	NT	Homo sapiens cAMP responsive element binding protein 1 (CREB1) mRNA
1537	14570	27542	1.74	2.0E-76	4504028	NT	Homo sapiens GM2 ganglioside activator protein (GM2A) mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1537	14570	27543	1.74	2.0E-76	4504026	NT	Homo sapiens GM2 ganglioside activator protein (GM2A) mRNA
1945	14969	27967	1.03	2.0E-76	AA253954.1	EST_HUMAN	z66h11.s1 Stratiogene schizo brain S11 Homo sapiens cDNA clone IMAGE:701925 3'
2854	15914	28837	3.73	2.0E-76	P23266	SWISSPROT	OLFATORY RECEPTOR-LIKE PROTEIN P3
3308	16361	26261	1.87	2.0E-76	AA445692.1	EST_HUMAN	z664e02.s1 Soares, testis, NHT Homo sapiens cDNA clone IMAGE:780986 3' similar to SW:17B5_HUMAN
3308	16361	26261	1.87	2.0E-76	AA445692.1	EST_HUMAN	P18084 INTEGRIN BETA-5 SUBUNIT PRECURSOR ;
3308	16361	26261	1.87	2.0E-76	AA445692.1	EST_HUMAN	z664e02.s1 Soares, testis, NHT Homo sapiens cDNA clone IMAGE:780986 3' similar to SW:17B5_HUMAN
3308	16361	26261	1.87	2.0E-76	AA445692.1	EST_HUMAN	P18084 INTEGRIN BETA-5 SUBUNIT PRECURSOR ;
3308	16361	26261	1.87	2.0E-76	AA445692.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C083
4591	17594	30476	1.01	2.0E-76	AL163283.2	NT	QV3-OT002B-220300-132-511 OT0028 Homo sapiens cDNA
4984	17999	30888	7.6	2.0E-76	AW879618.1	EST_HUMAN	Gerilla gorilla olfactory receptor (GGO18) gene, partial cds
5392	18496	31969	0.07	2.0E-76	AF127845.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
5700	18795	31969	5.35	2.0E-76	AB028004.1	NT	Homo sapiens KIAA0783 gene product (KIAA0783) mRNA
7643	20603	33958	0.55	2.0E-76	11421326	NT	Homo sapiens A kinase (PRKA) anchor protein 10 (AKAP10), mRNA
7698	20627	33951	0.76	2.0E-76	11426508	NT	Homo sapiens TPOR86 protein (HSTPCR86P), mRNA
7924	20857	34255	1.66	2.0E-76	11427410	NT	Homo sapiens similar to fibronectin protein S26 (H. sapiens) (LOC683180), mRNA
10645	23567	37054	7.03	2.0E-76	11437211	NT	Homo sapiens HIRA interacting protein 4 (hira-like) (HIRIP4), mRNA
11266	24218	37742	2.64	2.0E-76	7549607	NT	Human mRNA for HMG-1, complete cds
4326	17355	30241	3.37	1.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
5623	18922	31557	5.74	1.0E-76	BE796637.1	EST_HUMAN	601560806F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944302 5'
6372	19440	33345	0.64	1.0E-76	AA33207.1	EST_HUMAN	EST137301 Embryo, 8 week 1 Homo sapiens cDNA 5' end
7109	20043	33345	4.09	9.0E-77	BE896525.1	EST_HUMAN	601512435F1 NIH_MGC_Z1 Homo sapiens cDNA clone IMAGE:3913737 5'
12823	25499		1.36	9.0E-77	BE470354.1	EST_HUMAN	601302333F1 NIH_MGC_Z1 Homo sapiens cDNA clone IMAGE:3839753 5'
186	13289	26215	1.35	8.0E-77	R83144.1	EST_HUMAN	JP11102.r1 Soares breast 3NBHst Homo sapiens cDNA clone IMAGE:187195 5' similar to
4550	17573	30463	1.25	8.0E-77	BF205181.1	EST_HUMAN	SP-ANKK_HUMAN Q01484 ANKYRIN, BRAIN VARIANT 1 ;
5528	18627	31563	1.83	8.0E-77	4506230	NT	601866525F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4109503 5'
11716	24579	38257	1.82	8.0E-77	AA019770.1	EST_HUMAN	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-A1 para, 7 (Mox34 homolog) (P-SMD7) mRNA
11716	24679	38258	1.82	8.0E-77	AA019770.1	EST_HUMAN	z662e02.r1 Soares retina N2b-HR Homo sapiens cDNA clone IMAGE:363578 5'
12600	25484	31732	4.66	8.0E-77	R00245.1	EST_HUMAN	z662e02.r1 Soares retina N2b-HR Homo sapiens cDNA clone IMAGE:363578 5'
1945	14970	27968	2.43	7.0E-77	AA625755.1	EST_HUMAN	ye68f04.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:123007 3' similar to contains
2421	16428	28451	1.88	7.0E-77	4505944	NT	MER10 repetitive element ;
2421	16428	28452	1.88	7.0E-77	4505944	NT	z61f0d1.s1 Soares, testis, NHT Homo sapiens cDNA clone IMAGE:745392 3'
2421	16428	28452	1.88	7.0E-77	4505944	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide E (25kD) (POLR2E) mRNA
2421	16428	28452	1.88	7.0E-77	4505944	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide E (25kD) (POLR2E) mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar [Top Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
202	13356	26293	4.64	6.0E-77	4504600	NT	Homo sapiens interferon (alpha, beta and omega) receptor 2 (IFNAR2) mRNA
1144	14187	27138	20.18	6.0E-77	AW85763.1	EST_HUMAN	EST306823 IMAGE resequences, IMAGE Homo sapiens cDNA
1545	14578	27551	3.97	6.0E-77	AI204066.1	EST_HUMAN	q677h12.x1 Soares, fetal_lung_NBR119W Homo sapiens cDNA clone IMAGE:1745663 3'
1240	14276	27236	2.34	5.0E-77	AF041016.1	NT	7 Homo sapiens glucokinase (GCK) gene, exon 2
1382	14396	27367	2.41	5.0E-77	4537250	NT	Homo sapiens disintegrin and metalloprotease domain 10 (ADAM10) mRNA
2695	15691	28709	1.03	5.0E-77	AF162866.1	NT	Homo sapiens tyrosine-like kinase 1 (TLK1) mRNA, complete cds
2774	15766	28768	0.96	5.0E-77	4503160	NT	Homo sapiens cullin 1 (CUL1) mRNA
3534	16590	29504	0.64	5.0E-77	8394518	NT	Homo sapiens ubiquitin specific protease 18 (USP18), mRNA
4732	17752	30644	0.92	5.0E-77	5031660	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
4732	17752	30645	0.92	5.0E-77	5031660	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
4875	17960	30860	3.84	5.0E-77	AL043953.1	EST_HUMAN	DKFZ434G1728_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434G1728 5'
6951	20175	33469	0.84	5.0E-77	M13975.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds
7548	20511	33869	0.52	5.0E-77	X98296.1	NT	H. sapiens mRNA for ubiquitin hydrolase
7949	20511	33869	0.57	5.0E-77	X98296.1	NT	H. sapiens mRNA for ubiquitin hydrolase
8711	21579	35104	1.22	5.0E-77	11428849	NT	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
8711	21579	35105	1.22	5.0E-77	11428849	NT	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
9528	22811	36264	3	5.0E-77	11421928	NT	Homo sapiens sorting nexin 5 (SNX5), mRNA
9928	22811	36265	3	5.0E-77	11421928	NT	Homo sapiens sorting nexin 5 (SNX5), mRNA
10857	23777	37276	0.82	5.0E-77	AB002297.1	NT	Human mRNA for KIAA0289 gene, partial cds
10857	23777	37277	0.82	5.0E-77	AB002297.1	NT	Human mRNA for KIAA0289 gene, partial cds
1689	15010	28015	1.25	3.0E-77	5730038	NT	Homo sapiens SET domain and marker transposase fusion gene (SETMAR) mRNA
1689	15010	28016	1.25	3.0E-77	5730038	NT	Homo sapiens SET domain and marker transposase fusion gene (SETMAR) mRNA
10652	23574	37069	0.71	3.0E-77	H65167.1	EST_HUMAN	yu64g01.1 Weizmann Olfactory Epithelium Homo sapiens cDNA clone IMAGE:238608 5' similar to SP-S17447 S17447 PROBABLE LIGAND-BINDING PROTEIN RY2G5 - ;
10652	23574	37070	0.71	3.0E-77	H65167.1	EST_HUMAN	yu64g01.1 Weizmann Olfactory Epithelium Homo sapiens cDNA clone IMAGE:238608 5' similar to SP-S17447 S17447 PROBABLE LIGAND-BINDING PROTEIN RY2G5 - ;
10698	23698	37369	0.96	3.0E-77	AI017333.1	EST_HUMAN	oa31h07.x1 Soares, testis, NHT Homo sapiens cDNA clone IMAGE:1638973 3'
10968	23698	37400	0.88	3.0E-77	AI017333.1	EST_HUMAN	oa31h07.x1 Soares, testis, NHT Homo sapiens cDNA clone IMAGE:1638973 3'
11222	14791	27701	3.68	3.0E-77	BF359917.1	EST_HUMAN	FW3-MT0078-080800-005-g03 MT0078 Homo sapiens cDNA
1354	14399	27358	1.68	2.0E-77	AF1764617.1	EST_HUMAN	AV784617 MDS Homo sapiens cDNA clone MDSBT10 5'
1428	14462	27438	2.31	2.0E-77	AW89712.1	EST_HUMAN	RC3-BN0053-170200-011-101 BN0053 Homo sapiens cDNA
2102	15119	28140	2.01	2.0E-77	L41825.1	NT	Homo sapiens CYP17 gene, 5' end
2113	15130	28150	2.46	2.0E-77	7706315	NT	Homo sapiens CGI-79 protein (LOC51654), mRNA
2900	15898	28620	2.28	2.0E-77	AB037836.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2800	15868	28821	2.28	2.0E-77	AB037838.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
4084	17100	29982	1.25	2.0E-77	BE044318.1	EST_HUMAN	h043065.x1 Scanes_NFL_T_GBG_S1 Homo sapiens cDNA clone IMAGE:3040113 3' similar to SW:GAG2_HUMAN P10284 RETROVIRUS-RELATED GAG POLYPROTEIN ;
4442	17468	30357	0.68	2.0E-77	AB13519.1	EST_HUMAN	hw22302.x1 NCI CGAP Brn52 Homo sapiens cDNA clone IMAGE:2260468 3' similar to TR:O65245
4442	17468	30358	0.68	2.0E-77	AB13519.1	EST_HUMAN	hw22302.x1 NCI CGAP Brn52 Homo sapiens cDNA clone IMAGE:2260468 3' similar to TR:O65245
4802	17819	30713	2.32	2.0E-77	AA653025.1	EST_HUMAN	ns88g12.s1 NCI CGAP_P12 Homo sapiens cDNA clone IMAGE:1168838 similar to SW:RL28_HUMAN P47914.60S RIBOSOMAL PROTEIN L29, [1]; contains element MSR1 repetitive element ;
5158	17468	30357	0.65	2.0E-77	AB13519.1	EST_HUMAN	hw22302.x1 NCI CGAP Brn52 Homo sapiens cDNA clone IMAGE:2260468 3' similar to TR:O65245
5158	17468	30358	0.65	2.0E-77	AB13519.1	EST_HUMAN	hw22302.x1 NCI CGAP Brn52 Homo sapiens cDNA clone IMAGE:2260468 3' similar to TR:O65245
6055	19148	32353	2.06	2.0E-77	BE268940.1	EST_HUMAN	hw22302.x1 NCI CGAP Brn52 Homo sapiens cDNA clone IMAGE:2260468 3' similar to TR:O65245
6290	19368	32607	1.62	2.0E-77	BE787143.1	EST_HUMAN	hw22302.x1 NCI CGAP Brn52 Homo sapiens cDNA clone IMAGE:2260468 3' similar to TR:O65245
7390	20350	33701	14.21	2.0E-77	AB833003.1	EST_HUMAN	hw22302.x1 NCI CGAP Brn52 Homo sapiens cDNA clone IMAGE:2260468 3' similar to TR:O65245
8874	21841	35284	0.75	2.0E-77	AB92707.1	EST_HUMAN	hw22302.x1 NCI CGAP Brn52 Homo sapiens cDNA clone IMAGE:2260468 3' similar to TR:O65245
9888	22839	36285	5.84	2.0E-77	U50321.1	NT	hw22302.x1 NCI CGAP Brn52 Homo sapiens cDNA clone IMAGE:2260468 3' similar to TR:O65245
9888	22839	36296	5.84	2.0E-77	U50321.1	NT	hw22302.x1 NCI CGAP Brn52 Homo sapiens cDNA clone IMAGE:2260468 3' similar to TR:O65245
10354	23278	36753	0.5	2.0E-77	BF310349.1	EST_HUMAN	hw22302.x1 NCI CGAP Brn52 Homo sapiens cDNA clone IMAGE:2260468 3' similar to TR:O65245
10354	23278	36754	0.5	2.0E-77	BF310349.1	EST_HUMAN	hw22302.x1 NCI CGAP Brn52 Homo sapiens cDNA clone IMAGE:2260468 3' similar to TR:O65245
45	13165	26068	0.94	1.0E-77	AB033102.1	NT	hw22302.x1 NCI CGAP Brn52 Homo sapiens cDNA clone IMAGE:2260468 3' similar to TR:O65245
45	13165	26069	0.94	1.0E-77	AB033102.1	NT	hw22302.x1 NCI CGAP Brn52 Homo sapiens cDNA clone IMAGE:2260468 3' similar to TR:O65245
272	13368	26294	1.33	1.0E-77	4502166	NT	hw22302.x1 NCI CGAP Brn52 Homo sapiens cDNA clone IMAGE:2260468 3' similar to TR:O65245
272	13368	26295	1.33	1.0E-77	4502166	NT	hw22302.x1 NCI CGAP Brn52 Homo sapiens cDNA clone IMAGE:2260468 3' similar to TR:O65245
876	15853	26891	2.31	1.0E-77	4502166	NT	hw22302.x1 NCI CGAP Brn52 Homo sapiens cDNA clone IMAGE:2260468 3' similar to TR:O65245
876	15853	26892	2.31	1.0E-77	4502166	NT	hw22302.x1 NCI CGAP Brn52 Homo sapiens cDNA clone IMAGE:2260468 3' similar to TR:O65245

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2450	15455	28477	1.73	1.0E-77	AB028024.1	NT	Homo sapiens mRNA for KIAA1101 protein, complete cds
3058	16115	29028	2.01	1.0E-77	4603300	NT	Homo sapiens C-4-allyl CoA reductase 1, mitochondrial (DECRI), mRNA
4380	17408	30289	3.92	1.0E-77	7706269	NT	Homo sapiens CG-50 protein (LOC51626), mRNA
4525	17550	30438	0.73	1.0E-77	4758053	NT	Homo sapiens cAMP responsive element binding protein 1 (CREB1) mRNA
4552	17575	30465	18.98	1.0E-77	AJ22844.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22, segment 1/3
4880	17701	30589	2.11	1.0E-77	6552322	NT	Homo sapiens breast cancer 1, early onset (BRCA1), transcript variant BRCA1 exon4, mRNA
4721	17741	30632	0.72	1.0E-77	AI273014.1	EST_HUMAN	q08g04.x1 NC1 CGAP K08 Homo sapiens cDNA clone IMAGE:1681110 3'
5000	17550	30438	0.95	1.0E-77	4758053	NT	Homo sapiens cAMP responsive element binding protein 1 (CREB1) mRNA
5219	17550	30438	0.68	1.0E-77	4758053	NT	Homo sapiens cAMP responsive element binding protein 1 (CREB1) mRNA
5245	18254	32324	1.12	1.0E-77	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
6038	19120	32324	1.61	1.0E-77	AF068944.1	NT	Homo sapiens dynactin 1 (DCTN1) gene, exons 27 and 28
6038	19120	32325	1.61	1.0E-77	AF068944.1	NT	Homo sapiens dynactin 1 (DCTN1) gene, exons 27 and 28
6165	18240	32471	1.39	1.0E-77	M23844.1	NT	Human von Willebrand factor gene, exon 20
6560	18560	32621	1.26	1.0E-77	4885182	NT	Homo sapiens diaphanous (Drosophila, homolog) 1 (DIAPH1), mRNA
7254	19888	32866	14.51	1.0E-77	5881412	NT	Homo sapiens elastin (supraaortic arterial stenosis, Williams-Beuren syndrome) (ELN), mRNA
8040	20871	34260	0.91	1.0E-77	11420189	NT	Homo sapiens cullin 1 (CUL1), mRNA
8040	20877	34373	0.69	1.0E-77	X04571.1	NT	Human mRNA for kidney epidermal growth factor (EGF) precursor
9620	22564	38013	0.65	1.0E-77	X94954.1	NT	H sapiens DNA for Cone cGMP-PDE gene
9620	22564	38014	0.65	1.0E-77	X94954.1	NT	H sapiens DNA for Cone cGMP-PDE gene
10890	23810	37316	0.92	1.0E-77	AB028396.1	NT	Homo sapiens hu-GlcAT-P mRNA for glucuronyltransferase, complete cds
10890	23810	37317	0.92	1.0E-77	AB028396.1	NT	Homo sapiens hu-GlcAT-P mRNA for glucuronyltransferase, complete cds
10890	23810	37352	3	9.0E-78	AW753002.1	EST_HUMAN	RC3-C10254-280699-071-b05 C10254 Homo sapiens cDNA
10816	23836	37352	3	9.0E-78	AW753002.1	EST_HUMAN	RC3-C10254-280699-071-b05 C10254 Homo sapiens cDNA
6589	19549	32916	2.93	8.0E-78	AW647061.1	EST_HUMAN	RC2-E10023-080500-012-603 E10023 Homo sapiens cDNA
6589	19549	32920	2.93	8.0E-78	AW647061.1	EST_HUMAN	RC2-E10023-080500-012-603 E10023 Homo sapiens cDNA
86	13202	26126	2.14	6.0E-78	AU118789.1	EST_HUMAN	AU118789 HEMBA1 Homo sapiens cDNA clone HEMBA1004354 5'
86	13202	26127	2.14	6.0E-78	AU118789.1	EST_HUMAN	AU118789 HEMBA1 Homo sapiens cDNA clone HEMBA1004354 5'
3325	16376	29297	8.96	6.0E-78	BF344101.1	EST_HUMAN	602016928FT NC1 CGAP Brn64 Homo sapiens cDNA clone IMAGE:4182511 5'
6712	19768	31407	2.34	6.0E-78	11432710	NT	Homo sapiens GDNF family receptor alpha 1 (GFRAT1), mRNA
219	13319	26244	1.78	5.0E-78	11422485	NT	Homo sapiens hypothetical protein FLJ11316 (FLJ11316), mRNA
2569	15570	28560	5.46	5.0E-78	AW673424.1	EST_HUMAN	bas4h03.3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900405 5' similar to WP:Y4859A.6
3395	16445	31407	2.45	5.0E-78	M55596.1	NT	CE22121 ;
5486	18586	31407	2.45	5.0E-78	AF038536.1	NT	Human collagenase type IV (COL4A) gene, exon 6
5855	18751	31917	24.78	5.0E-78	11416585	NT	Homo sapiens Beas2 nuclear dystrophy related protein mRNA, partial cds
							Homo sapiens transforming growth factor, beta-induced, 68kD (TGFB3), mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7361	20331	33681	2.22	5.0E-78	AW993120.1	EST_HUMAN	EST368160 IMAGE resources, MAGB Homo sapiens cDNA
9438	22402	35840	6.85	5.0E-78	U90886.1	NT	Human lysosomal alpha-mannosidase (manB) gene, exon 7
9439	22403	35841	3.51	5.0E-78	BE900836.1	EST_HUMAN	601648061F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE3831887 5'
11674	24552	38112	1.84	5.0E-78	BE241639.1	EST_HUMAN	TCAP1E0686 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project-TCAA Homo sapiens cDNA clone TCAP0686
11614	24552	38113	1.84	5.0E-78	BE241639.1	EST_HUMAN	TCAP1E0686 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project-TCAA Homo sapiens cDNA clone TCAP0686
1139	14182	27133	1.66	4.0E-78	AL043314.2	EST_HUMAN	DKFZP434N0323_r1 434 (synonym: hlec3) Homo sapiens cDNA clone DKFZP434N0323 5'
1521	14553	27524	2.74	4.0E-78	AL355841.1	NT	Novel human gene mapping to chromosome 22
1656	14688	27663	1.11	4.0E-78	AI985094.1	EST_HUMAN	w87b12.x1 NO1_CGAP_Kid11 Homo sapiens cDNA clone IMAGE2466615 3' similar to SW-WAP_P1G
2326	15337	28360	3.31	4.0E-78	AF107405.1	NT	O46655 WHEY ACIDIC PROTEIN PRECURSOR :
4350	17377	30256	1.47	4.0E-78	765876	NT	Homo sapiens pre-mRNA splicing factor (SFRS3) mRNA, complete cds
4807	17824	30719	2.16	4.0E-78	4505806	NT	Homo sapiens synctn (LOC30816) mRNA
4807	17824	30720	2.16	4.0E-78	4505806	NT	Homo sapiens synctn (LOC30816) mRNA
5662	18951	32137	1.13	4.0E-78	11420732	NT	Homo sapiens phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (PIK4CA) mRNA
6297	19369	32608	0.61	4.0E-78	7662106	NT	Homo sapiens SFRS protein kinase 2 (SRPK2) mRNA
6297	19369	32609	0.61	4.0E-78	7662106	NT	Homo sapiens KIAA0428 gene product (KIAA0428) mRNA
6725	19781	33060	0.59	4.0E-78	4508736	NT	Homo sapiens ribosomal protein S6 kinase, 70kD, polypeptide 1 (RPS6KB1) mRNA
7733	20588	34052	0.58	4.0E-78	4508736	NT	Homo sapiens ribosomal protein S6 kinase, 70kD, polypeptide 1 (RPS6KB1) mRNA
9205	22171	35601	1.66	4.0E-78	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (pikK230) mRNA, complete cds
9205	22171	35602	1.66	4.0E-78	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (pikK230) mRNA, complete cds
9723	22751	36204	0.64	4.0E-78	11417295	NT	Homo sapiens X-ray repair complementing defective repair in Chinese hamster cells 4 (XROCC4) mRNA
10811	23732	37233	1.87	4.0E-78	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504) mRNA
10811	23732	37234	1.97	4.0E-78	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504) mRNA
11746	24634	38213	1.65	4.0E-78	AF169148.1	NT	Homo sapiens e-Cadp1 (CABP1) mRNA, complete cds
11863	24764	38350	5.69	4.0E-78	X05944.1	NT	Human transforming growth factor-beta precursor gene exons 4-5 (and joined mature peptide)
12126	24955	38559	2.38	4.0E-78	11024711	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4) mRNA
12797	25426	37139	3.89	4.0E-78	AB011395.1	NT	Homo sapiens gene for A1-F, complete cds
182	13265	26169	2.77	3.0E-78	AF095901.1	NT	Homo sapiens gRF1 gene, complete cds
182	13265	26169	2.77	3.0E-78	AF095901.1	NT	Homo sapiens gRF1 gene, complete cds
3776	16818	26160	0.94	3.0E-78	AL040604.1	EST_HUMAN	AU140604 PLACE3 Homo sapiens cDNA clone PLACE300373 5'
3829	16859	26771	0.88	3.0E-78	4507334	NT	Homo sapiens synaptotagmin 1 (SYN1), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4131	18899	28771	0.78	3.0E-78	4507334	NT	Homo sapiens synuclein 1 (SYNJ1), mRNA
10849	23171		5.78	3.0E-78	BE144768.1	EST_HUMAN	QMO-HT180-04.1089-055-c07 HT180 Homo sapiens cDNA
11328	24276	37804	1.8	3.0E-78	BE156318.1	EST_HUMAN	QVH-OT0387.160200-114-g09 HT0387 Homo sapiens cDNA
3138	16195		4.1	2.0E-78	AA0489.1	NT	Homo sapiens type IV collagen alpha 5 chain (COL4A5) gene, exon 20
4042	17080		1.43	2.0E-78	AA311872.1	EST_HUMAN	EST182893 Jurkat T-cells VI Homo sapiens cDNA 5' end
7705	20682	34027	1.24	2.0E-78	AW402306.1	EST_HUMAN	UI-HF-BK0-eag-g-10-GUL1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE3054139 5'
7705	20682	34028	1.24	2.0E-78	AW402306.1	EST_HUMAN	UI-HF-BK0-eag-g-10-GUL1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE3054139 5'
8003	20842	34335	3.2	2.0E-78	BF68800.1	EST_HUMAN	602186529F1 NIH_MGC_49 Homo sapiens cDNA clone IMAGE:4288699 5'
8375	21344	34755	2.54	2.0E-78	AV714177.1	EST_HUMAN	AV714177 DCB Homo sapiens cDNA clone DOBAWIF09 5'
8795	21762	35183	1.51	2.0E-78	AI557909.1	EST_HUMAN	P2.1.16 B07.1 tumor2 Homo sapiens cDNA 3'
8795	21762	35184	1.51	2.0E-78	AI557909.1	EST_HUMAN	P2.1.16 B07.1 tumor2 Homo sapiens cDNA 3'
11416	24360	37895	2.5	2.0E-78	AI187837.1	EST_HUMAN	qf50N05.X1 NC1 CGAP_Bln28 Homo sapiens cDNA clone IMAGE:1859961 3' similar to WP:R60.1
11458	24401	37949	2.03	2.0E-78	N66951.1	EST_HUMAN	CE06828 PROTEIN KINASE ;
5378	18482	31357	3.22	1.0E-78	11417304	NT	z449FT.1251 Soares fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:285923 3'
7144	18376	31284	0.87	1.0E-78	AV548699.1	EST_HUMAN	Homo sapiens GAP-like protein (LOC51309), mRNA
8489	21487		2.95	1.0E-78	U52373.1	NT	AV548698 GLG Homo sapiens cDNA clone GLCBM201.3'
12323	25125	31847	1.81	1.0E-78	11430460	NT	Human serine/threonine kinase MNB (mnb) mRNA, complete cds
4727	17747	30638	3.81	9.0E-79	11525891	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
4899	17916	30807	3.55	9.0E-79	BE000837.1	EST_HUMAN	Homo sapiens peptide YY (PYY), mRNA
5907	18907	31537	16.13	9.0E-79	AB028070.1	NT	RC2.BN0074-090300-014-c12 BN0074 Homo sapiens cDNA
							Homo sapiens mRNA for activator of S phase Kinase, complete cds
6474	19539	32785	2.49	9.0E-79	5454145	NT	Homo sapiens ubiquitin-conjugating enzyme E2E 3 (homologous to yeast UBC4/5) (UBE2E3), mRNA
6772	19827	33109	0.87	9.0E-79	11430822	NT	Homo sapiens hypothetical protein FLJ11284 (FLJ11284), mRNA
7573	25984		1.05	9.0E-79	11424427	NT	Homo sapiens hypothetical protein FLJ20345 (FLJ20345), mRNA
7825	20773	34150	0.84	9.0E-79	11421735	NT	Homo sapiens cAMP response element-binding protein CRE-BPa (H_GS168L15.1), mRNA
7825	20773	34151	0.84	9.0E-79	11421735	NT	Homo sapiens cAMP response element-binding protein CRE-BPa (H_GS168L15.1), mRNA
7875	20919	34197	0.55	9.0E-79	D30938.1	NT	Human T-cell mRNA for glycyl tRNA synthetase, complete cds
8689	21657	35078	0.5	9.0E-79	11417260	NT	Homo sapiens threonyl-tRNA synthetase (TARS), mRNA
8689	21657	35080	0.5	9.0E-79	11417260	NT	Homo sapiens threonyl-tRNA synthetase (TARS), mRNA
9418	22383	35521	5.53	9.0E-79	J02863.1	NT	Homo sapiens casein kinase II alpha subunit mRNA, complete cds
9418	22383	35522	5.53	9.0E-79	J02863.1	NT	Homo sapiens casein kinase II alpha subunit mRNA, complete cds
9735	22763	36218	0.86	9.0E-79	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
10730	23652	37146	0.95	9.0E-79	11439843	NT	Homo sapiens hypothetical protein FLJ20535 (FLJ20535), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10784	23705	37204	1.53	9.0E-79	AF062348.1	NT	Homo sapiens zinc finger protein 216 splice variant 1 (ZNF216) mRNA, complete cds
10784	23705	37205	1.53	9.0E-79	AF062348.1	NT	Homo sapiens zinc finger protein 216 splice variant 1 (ZNF216) mRNA, complete cds
11406	24350	37882	4.27	9.0E-79	AY008273.1	NT	Homo sapiens TRAF6-regulated IKK activator 1 beta UOVA mRNA, complete cds
11841	24724	38310	2.97	9.0E-79	11423827	NT	Homo sapiens suppressor of white apical homolog 2 (SWAP2), mRNA
11841	24724	38311	2.97	9.0E-79	11423827	NT	Homo sapiens suppressor of white apical homolog 2 (SWAP2), mRNA
12115	24955	38586	2.71	9.0E-79	7682451	NT	Homo sapiens KIAA1035 protein (KIAA1035), mRNA
13000	25558	31720	1.55	9.0E-79	11417677	NT	Homo sapiens gamma-glutamyltransferrase 1 (GGT1), mRNA
3755	16797	29708	1.33	8.0E-79	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
5195	18204	31078	0.66	8.0E-79	8597387	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
3266	16320	28242	7.24	7.0E-79	BE619648.1	EST_HUMAN	801472768T1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3875657 3'
12170	25020		2.63	8.0E-79	AA698829.1	EST_HUMAN	494404.61 Soares fetal liver spleen, INFLS, S1 Homo sapiens cDNA clone IMAGE:482558 3' similar to
11824	24707	38280	4.57	5.0E-79	AL163282.2	NT	TR-Q15-408 Q15-408 NEUTRAL PROTEINASE LARGE SUBUNIT ;
3191	16246		1.35	4.0E-79	8923225	NT	Homo sapiens chromosome 21 segment HS21C082
313	13405	26331	1.46	3.0E-79	AF114498.1	NT	Homo sapiens hypothetical protein FLJ10283 (FLJ10283), mRNA
979	14030	26384	2.02	3.0E-79	AF222708.1	NT	Homo sapiens cell-line ba201a chloride ion current inducer protein (Cin) gene, complete cds
3115	16172	29682	1.82	3.0E-79	U09410.1	NT	Homo sapiens zinc finger protein ZNF131, mRNA, partial cds
5435	18537	31445	6.05	3.0E-79	AF110322.1	NT	Homo sapiens MSTP018 (MSI 018) mRNA, complete cds
5812	18902	32085	1.61	3.0E-79	AB020699.1	NT	Homo sapiens mRNA for KIAA0892 protein, partial cds
5841	18931	32115	0.95	3.0E-79	BE786470.1	EST_HUMAN	801482143F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3884554 5'
5841	18931	32116	0.85	3.0E-79	BE786470.1	EST_HUMAN	801482143F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3884554 5'
5983	18952	32138	4.05	3.0E-79	11428770	NT	Homo sapiens netrin 1 (NTN1), mRNA
5983	18952	32139	4.05	3.0E-79	11428770	NT	Homo sapiens netrin 1 (NTN1), mRNA
6909	19581	33257	0.8	3.0E-79	BE259893.1	EST_HUMAN	901112055F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352985 5'
7262	19897	33294	3.31	3.0E-79	AB014520.1	NT	Homo sapiens mRNA for KIAA0620 protein, partial cds
7262	19897	33295	3.31	3.0E-79	AB014520.1	NT	Homo sapiens mRNA for KIAA0620 protein, partial cds
8504	21472	34896	1.56	3.0E-79	AF249273.1	NT	Homo sapiens Bcl-2-associated transcription factor short form mRNA, complete cds
9758	22659	38156	0.57	3.0E-79	10835036	NT	Homo sapiens tetrapeptide repeat domain 3 (TTCS), mRNA
10712	23634		0.64	3.0E-79	AV698115.1	EST_HUMAN	AV698115 GKCC Homo sapiens cDNA clone GKCAHE11 5'
287	13382		2.05	2.0E-79	H63128.1	EST_HUMAN	Y4803.31 Soares fetal liver spleen, INFLS Homo sapiens cDNA clone IMAGE:208541 3'
635	13701	26022	1.29	2.0E-79	BE376926.1	EST_HUMAN	60116941BF2 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3511107 5'
928	13981	26935	1.35	2.0E-79		NT	Homo sapiens BCL2-like 2 (BCL2L2) mRNA
985	14036	26960	4.78	2.0E-79	4885234	NT	Homo sapiens Gardner-Rasheed feline sarcoma viral (v-fgr) oncogene homolog (FGR) mRNA
985	14036	26961	4.78	2.0E-79	4885234	NT	Homo sapiens Gardner-Rasheed feline sarcoma viral (v-fgr) oncogene homolog (FGR) mRNA

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe ID SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1036	14082		1.02	2.0E-79	AB23747.1	EST_HUMAN	JH18M07.NC1_CGAP_P128 Homo sapiens cDNA clone IMAGE:2118695 3'
1804	14832	27819	0.97	2.0E-79	7657024	NT	Homo sapiens Dickkopf gene 4 (DKK-4), mRNA
1804	14832	27820	0.97	2.0E-79	7657024	NT	Homo sapiens Dickkopf gene 4 (DKK-4), mRNA
1893	14918	27914	0.92	2.0E-79	7652255	NT	Homo sapiens KIA00703 gene product (KIA00703), mRNA
2158	15174	28193	4.97	2.0E-79	4555863	NT	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA
2158	15174	28194	4.97	2.0E-79	4555863	NT	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA
2202	15217	28237	0.91	2.0E-79	AJ271408.1	NT	Homo sapiens mRNA for Fae-associated factor FAF1 (Faf1 gene)
3933	16973	29887	0.83	2.0E-79	AF170492.1	NT	Homo sapiens chloride channel CLC4 (CLC4) mRNA, complete cds
4193	17224	30113	1.15	2.0E-79	AJ271408.1	NT	Homo sapiens chloride channel CLC4 (CLC4) mRNA, complete cds
4716	17736	30628	0.97	2.0E-79	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21CD06
							Homo sapiens T-cells VI Homo sapiens cDNA 5' end similar to C. elegans hypodermal protein, ccsmid B0303.15
5754	18848		1.25	2.0E-79	AA312223.1	EST_HUMAN	
5815	18905	32088	0.88	2.0E-79	11181769	NT	Homo sapiens X transporter protein 3 (XT3), mRNA
6371	19435	32682	1.07	2.0E-79	AB020637.1	NT	Homo sapiens mRNA for KIAA0830 protein, partial cds
7153	19385	31273	0.7	2.0E-79	AF263613.1	NT	Homo sapiens membrane-associated calcium-independent phospholipase A2 gamma mRNA, complete cds
7373	20343	33694	1.74	2.0E-79	7382479	NT	Homo sapiens Rho GTPase activating protein 6 (ARHGAP6), transcript variant 4, mRNA
7373	20343	33695	1.74	2.0E-79	7382479	NT	Homo sapiens Rho GTPase activating protein 6 (ARHGAP6), transcript variant 4, mRNA
8437	21405	34818	1.13	2.0E-79	4506442	NT	Homo sapiens retinoblastoma-like 1 (p107) (RBL1), mRNA
8862	21829	35252	2.55	2.0E-79	11427428	NT	Homo sapiens hypodermal protein FLJ11006 (FLJ11006), mRNA
9118	22084	35512	0.46	2.0E-79	8923248	NT	Homo sapiens hypodermal protein FLJ20275 (FLJ20275), mRNA
9118	22084	35513	0.46	2.0E-79	8923248	NT	Homo sapiens hypodermal protein FLJ20275 (FLJ20275), mRNA
9357	22322	35749	1.1	2.0E-79	11432184	NT	Homo sapiens similar to A1Pase, H+ transporting, lysosomal (vacuolar proton pump) membrane sector associated protein MB-9 (H+ sapiens) (LOC33961), mRNA
10452	23374	35965	3.12	2.0E-79	S72869.1	NT	H4(D105170)=putative cytoskeletal protein [human, thyroid, mRNA, 3011 nt]
10452	23374	35966	3.12	2.0E-79	S72869.1	NT	H4(D105170)=putative cytoskeletal protein [human, thyroid, mRNA, 3011 nt]
11368	24315	37840	3.86	2.0E-79	BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-10 BT0310 Homo sapiens cDNA
11368	24315	37841	3.86	2.0E-79	BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-10 BT0310 Homo sapiens cDNA
11566	24602	37841	2.62	2.0E-79	AB036532.1	NT	Homo sapiens p33R2 gene for ribonucleotide reductase, exon 9 and complete cds
12207	18350	31295	3.21	2.0E-79	7682357	NT	Homo sapiens KIAA0879 protein (KIAA0879), mRNA
12263	25107	31837	4.8	2.0E-79	AB020640.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
12524	25254	31804	2.41	2.0E-79	11418322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
6739	25666		3.26	1.0E-79	BF363071.1	EST_HUMAN	MRO-NN0087-286060-017-B70 NN0087 Homo sapiens cDNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9176	22142	35669	3.08	6.0E-80	11528464	NT	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA
9373	22338	35788	1.56	6.0E-80	AL163051.2	NT	Homo sapiens chromosome 21 segment HS21C101
9714	22667	36125	0.94	6.0E-80	AF161495.1	NT	Homo sapiens HSPC146 mRNA, complete cds
9841	22777	36233	0.47	6.0E-80	AJ271735.1	NT	Homo sapiens Xa pseudotuberosal region; segment 1/2
10220	23145	36234	1.55	6.0E-80	U20211.1	NT	Human cDNA photoreceptor GMP-7 phosphodiesterase alpha' subunit gene, exon 21
11289	24259	37766	2.43	6.0E-80	11427368	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 1 (BIG1), mRNA
11568	24496	38054	20.37	6.0E-80	AF226730.1	NT	Homo sapiens CY19 mRNA, complete cds
12051	24924	38521	1.64	6.0E-80	AF102265.1	NT	Homo sapiens N-acetylglucosamine-6-phosphate mutase mRNA, complete cds
12304	25787		2.39	6.0E-80	AF240766.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12506	25243		6.41	6.0E-80	AB029900.1	NT	Homo sapiens CST gene for ceramide sulfotransferase, exon 1, 2, 3, 4, 5
12694	25914		4.47	6.0E-80	AJ133127.1	NT	Homo sapiens mRNA for sodium-glucose cotransporter (SGLT2 gene)
590	13657	26572	2.89	5.0E-80	4506228	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 3 (PSMD3) mRNA
836	13693	26848	1.49	5.0E-80	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
836	13693	26849	1.49	5.0E-80	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
1193	14293		0.96	5.0E-80	X91647.1	NT	H. sapiens noct gene (exon 12)
1450	14483		2.21	5.0E-80	AL163263.2	NT	Homo sapiens chromosome 21 segment HS21C083
2359	16377	28400	1.92	5.0E-80	U89256.1	NT	Human (3)mbt protein homolog mRNA, complete cds
2437	16444	28482	6.37	5.0E-80	AB037655.1	NT	Homo sapiens mRNA for KIAA1434 protein, partial cds
2806	15786	28816	5	5.0E-80	4504292	NT	Homo sapiens H3 histone family, member J (H3FJ) mRNA
4089	17105	29698	1.26	5.0E-80	AB019038.1	NT	Homo sapiens HMT-1 mRNA for beta-1,4 mannosyltransferase, complete cds
4039	17105	29699	1.26	5.0E-80	AB019038.1	NT	Homo sapiens HMT-1 mRNA for beta-1,4 mannosyltransferase, complete cds
4991	18008	30894	1.53	5.0E-80	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
8700	21688	36031	1.14	5.0E-80	8910263	NT	Mus musculus keratin complex 2, gene 6g (K12-6g), mRNA
9913	22617	36069	15.19	4.0E-80	F25915.1	EST_HUMAN	HSPD13165 H3 Homo sapiens cDNA clone s4000045f03
218	13318		9.37	3.0E-80	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
4738	17758	30653	1.45	3.0E-80	BF085009.1	EST_HUMAN	PMO-GN0018-040600-002-E03 GN0018 Homo sapiens cDNA
4945	17961		3.11	3.0E-80	BE817465.1	EST_HUMAN	QVA-BN0293-040600-241-g10 BN0293 Homo sapiens cDNA
5919	19005	32197	2.02	3.0E-80	A061675.1	EST_HUMAN	cc23a12 x1 Soares, NSF, FB, GW, OT, PA, P, S1 Homo sapiens cDNA clone IMAGE:1567054 3' similar to
1814	14841	27832	4.7	2.0E-80	R36321.1	EST_HUMAN	YR05606 r1 Soares Infant brain IN1B Homo sapiens cDNA clone IMAGE:38060 5'
1877	14902	27802	1.49	2.0E-80	A144821.1	EST_HUMAN	RET487 subtracted retina cDNA library Homo sapiens cDNA clone RET487
2071	15088	28106	5.1	2.0E-80	AL043116.2	EST_HUMAN	DKFZp434D1323_r1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434D1323 5'
6374	19442	32684	0.69	2.0E-80	AB23972.1	EST_HUMAN	wm48c10.x1 NCJ_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2448786 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6374	19442	32685	0.69	2.0E-80	A1923872.1	EST_HUMAN	wn46010.xt NCI CGAP_Lu18 Homo sapiens cDNA clone IMAGE:2448786 3'
6977	20200	32530	1.01	2.0E-80	AA582952.1	EST_HUMAN	nm80001.s1 NCI CGAP_Cos9 Homo sapiens cDNA clone IMAGE:1080177 3'
7098	20032	33355	1.51	2.0E-80	11421930	NT	Homo sapiens Gald transport complex protein (90 kDa) (G1C90), mRNA
7463	20429	33788	0.81	2.0E-80	T75215.1	EST_HUMAN	y68012.r1 Scores infant brain 11B18 Homo sapiens cDNA clone IMAGE:22851 5' similar to SPK1CR_XENLA P08802 KERATIN, TYPE I CYTOSKELETAL ENDO B ;
9514	22477	35622	1.22	2.0E-80	AW964270.1	EST_HUMAN	EST1735943 MAGE resequences, MAGE Homo sapiens cDNA
10126	23052	36530	0.97	2.0E-80	AJ007378.1	NT	Homo sapiens GGT, gene, exon 6
11216	24169	37697	8.05	2.0E-80	AA393362.1	EST_HUMAN	Z12012.1 Scores, testis, NHT Homo sapiens cDNA clone IMAGE:727727 5' similar to TR:G191315
340	13429		2.11	1.0E-80	AL168303.2	NT	G191315 ANDROGEN-DEPENDENT EXPRESSED PROTEIN ;
800	13859	28806	1.95	1.0E-80	AF231920.1	NT	Homo sapiens chromosome 21 segment HS21C103
1971	14992		2.82	1.0E-80	AJ732656.1	EST_HUMAN	nm01112.x5 NCI CGAP_Cos9 Homo sapiens cDNA clone IMAGE:1076495 3' similar to contains OFR.11 OFR repetitive element ;
4857	17874	30762	0.78	1.0E-80	N96520.1	EST_HUMAN	zab3907.r1 Scores fetal liver spleen 1NF1S Homo sapiens cDNA clone IMAGE:294972 5' similar to contains Alu repetitive element.
5400	18503		3.62	1.0E-80	BE398615.1	EST_HUMAN	G01274305F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3616433 5'
5083	19163	32375	6.24	1.0E-80	L10247.1	NT	Homo pro-alpha1 type I collagen (COL2A1) gene exons 1-54, complete cds
6646	19704	32680	1.3	1.0E-80	5174540	NT	Homo sapiens melastin dehydrogenase 2, NAD (mitochondrial) (MDH2), nuclear gene encoding mitochondrial protein, mRNA
7414	20381	33732	1.09	1.0E-80	AJ224172.1	NT	Homo sapiens mRNA for lipophilin B
7824	20772	34148	2.6	1.0E-80	AJ848731.1	EST_HUMAN	wk35005.xt NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2472296 3'
7824	20772	34149	2.6	1.0E-80	AJ848731.1	EST_HUMAN	wk35005.xt NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2472296 3'
8573	21541	34661	1.17	1.0E-80	11421211	NT	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
9048	22014	35437	0.92	1.0E-80	11421211	NT	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
9048	22014	35438	0.92	1.0E-80	11421211	NT	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
9640	22584	39032	1.26	1.0E-80	AF245219.1	NT	Homo sapiens probable mannose binding C-type lectin DC-SIGNR mRNA, complete cds
9640	22584	39033	1.26	1.0E-80	AF245219.1	NT	Homo sapiens probable mannose binding C-type lectin DC-SIGNR mRNA, complete cds
10791	23712	37214	1.12	1.0E-80	D63479.2	NT	Homo sapiens mRNA for KIAA0143 protein, partial cds
11013	23978	37503	1.72	1.0E-80	11641276	NT	Homo sapiens similar to rat myomesin (LOC84182), mRNA
11013	23978	37504	1.72	1.0E-80	11641276	NT	Homo sapiens similar to rat myomesin (LOC84182), mRNA
11443	24386	37626	1.67	1.0E-80	8823939	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
12378	25287	31779	2.27	1.0E-80	11417901	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MNT), mRNA
11488	24431	37680	9.7	8.0E-81	BE394625.1	EST_HUMAN	G01310531F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3602070 5'
7464	20430	33787	2.97	7.0E-81	AJ822115.1	EST_HUMAN	zab1608.x5 Scores, fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:286918 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top Hit) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4414	17441	30331	4.98	6.0E-81	BE256829.1	EST_HUMAN	60111197071 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352840 5'
4414	17441	30332	4.98	6.0E-81	BE256829.1	EST_HUMAN	60111197071 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352840 5'
5355	18460	31326	1.65	6.0E-81	4501848.NT	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
5355	18460	31330	1.65	6.0E-81	4501848.NT	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
7845	20792	34168	0.56	6.0E-81	AF038860.1	NT	Homo sapiens chromosome 1p30-p34 beta-1.4-galactosyltransferase mRNA, complete cds
9552	22854	39004	1.17	6.0E-81	AA396017.1	EST_HUMAN	EST169129 Fetal lung II Homo sapiens cDNA clone IMAGE:3294601 5'
12707	23364	31768	2.68	6.0E-81	BF679022.1	EST_HUMAN	602153366F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3294601 5'
12707	23364	31769	2.68	6.0E-81	BF679022.1	EST_HUMAN	602153366F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3294601 5'
2228	19240	28205	2.27	5.0E-81	BE296042.1	EST_HUMAN	601128505F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3345460 5'
8755	21723	35146	1.57	5.0E-81	AB0071923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
21723	35147	35147	1.57	5.0E-81	AB0071923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
8755	21723	35147	1.57	5.0E-81	AB0071923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
10006	22833	36396	0.81	5.0E-81	M60316.1	NT	Human transforming growth factor-beta (tgf-beta) mRNA, complete cds
10006	22833	36397	0.81	5.0E-81	M60316.1	NT	Human transforming growth factor-beta (tgf-beta) mRNA, complete cds
11908	24789	38378	1.84	5.0E-81	9506634.NT	NT	Homo sapiens hypothetical protein (FLJ11046), mRNA
703	13765	26700	1.21	4.0E-81	A521435.1	EST_HUMAN	tt60612.k1 NCI_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2127702 3' similar to TR:Q85560 Q85560
1839	14866	27865	1.38	4.0E-81	AW779612.1	EST_HUMAN	hs98d02.x1 NCI_CGAP_Cot14 Homo sapiens cDNA clone IMAGE:3035907 3' similar to SW:CCPG_BOVIN
3186	19241	29159	4.49	4.0E-81	AB037766.1	NT	P53620 COATOMER GAMMA SUBUNIT ; Homo sapiens mRNA for KIAA1345 protein, partial cds
3644	16887	29802	0.89	4.0E-81	AW004608.1	EST_HUMAN	ws00103.x1 NCI_CGAP_C03 Homo sapiens cDNA clone IMAGE:2905269 3' similar to TR:O43815 O43815
4187	17218	30104	1.85	4.0E-81	AF263306.1	NT	Homo sapiens rals3 interacting protein variant 2 mRNA, partial cds
4187	17218	30105	1.86	4.0E-81	AF263306.1	NT	Homo sapiens rals3 interacting protein variant 2 mRNA, partial cds
4419	17446	30337	1.1	4.0E-81	8923209.NT	NT	Homo sapiens hypothetical protein FLJ20220 (FLJ20220), mRNA
7492	20457	33815	0.93	4.0E-81	4757893.NT	NT	Homo sapiens calcium channel, voltage-dependent, L type, alpha 2/delta subunit (CACNA2), mRNA
7629	20589	33952	0.89	4.0E-81	11420544.NT	NT	Homo sapiens ets variant gene 1 (ETV1), mRNA
8830	21568	35019	2	4.0E-81	X06689.1	NT	Human mRNA for amyloid A(751) protein
8830	21568	35276	3.34	4.0E-81	U20197.1	NT	Human cdc phosphatase cGMP-phosphodiesterase alpha' subunit gene, exons 2 and 3
8880	21856	35277	3.34	4.0E-81	U20197.1	NT	Human cdc phosphatase cGMP-phosphodiesterase alpha' subunit gene, exons 2 and 3
9581	22543	35954	3.82	4.0E-81	AB018001.1	NT	Homo sapiens mRNA for Death-associated protein kinase 2, complete cds
10481	23383	39678	1.82	4.0E-81	11422821.NT	NT	Homo sapiens ligase I, DNA, ATP-dependent (LIG1), mRNA
10531	23453	39950	0.87	4.0E-81	11439065.NT	NT	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA
10531	23453	39951	0.87	4.0E-81	11439065.NT	NT	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11519	24480	38010	3.39	4.0E-81	4758085	NT	Homo sapiens vesicle trafficking protein sec22b (SEC22B) mRNA
11519	24480	38011	3.39	4.0E-81	4758085	NT	Homo sapiens vesicle trafficking protein sec22b (SEC22B) mRNA
12200	25863	31438	3.45	4.0E-81	114176822	NT	Homo sapiens calcineurin binding protein 1 (KIAA03030) mRNA
12200	25863	31439	3.45	4.0E-81	114176822	NT	Homo sapiens calcineurin binding protein 1 (KIAA03030) mRNA
12737	25388	31753	1.71	4.0E-81	114176711	NT	Homo sapiens beta-ureidopropionase (LOC51735) mRNA
12737	25388	31754	1.71	4.0E-81	114176711	NT	Homo sapiens beta-ureidopropionase (LOC51735) mRNA
12878	25472	31728	3.69	4.0E-81	114176714	NT	Homo sapiens transcobalamin II; megaloblastic anemia (TCN2) mRNA
1272	14307	27268	10.2	3.0E-81	Y18000.1	NT	Homo sapiens NF2 gene
1272	14307	27267	10.2	3.0E-81	Y18000.1	NT	Homo sapiens NF2 gene
2390	15388	28412	1.65	3.0E-81	AF077186.1	NT	Homo sapiens cullin 4A (CUL4A) mRNA, complete cds
3004	18092	28890	5.19	3.0E-81	4506280	NT	Homo sapiens pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1) (PTN) mRNA
3004	18092	28891	5.19	3.0E-81	4506280	NT	Homo sapiens pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1) (PTN) mRNA
2844	15904	28828	2.48	2.0E-81	BE794636.1	EST_HUMAN	601474072F1 NIH_MGC 68 Homo sapiens cDNA clone IMAGE:3877121 5'
2844	15904	28829	2.48	2.0E-81	BE794636.1	EST_HUMAN	601474072F1 NIH_MGC 68 Homo sapiens cDNA clone IMAGE:3877121 5'
3787	18828	29735	0.88	2.0E-81	AW611542.1	EST_HUMAN	hg55d01.x1 NCI CGAP Kid1 Homo sapiens cDNA clone IMAGE:2852384 3'
8250	21289	34670	0.53	2.0E-81	88238839	EST	Homo sapiens hypothetical protein (LOC55588) mRNA
13032	18828	29735	2.55	2.0E-81	AW611542.1	EST_HUMAN	hg55d01.x1 NCI CGAP Kid1 Homo sapiens cDNA clone IMAGE:2852384 3'
4543	17566	30453	3.12	1.0E-81	AA040370.1	EST_HUMAN	2k45909.1 Soares_pregnant_uterus_NhiPU Homo sapiens cDNA clone IMAGE:468925 5' similar to
4675	17566	30583	9.34	1.0E-81	BE047866.1	EST_HUMAN	2k45909.1 Soares_pregnant_uterus_NhiPU Homo sapiens cDNA clone IMAGE:468925 5' similar to
5308	18328	38811	3.31	1.0E-81	U87928.1	NT	Human acetylcholinesterase (AChE) gene, exon 3
5427	18530	31409	3.8	1.0E-81	114328961	NT	Homo sapiens polymerase (DNA directed), gamma (POLG) mRNA
5427	18530	31410	3.8	1.0E-81	114328961	NT	Homo sapiens polymerase (DNA directed), gamma (POLG) mRNA
5580	18676	31639	0.83	1.0E-81	AA255569.1	EST_HUMAN	P46943 Homo sapiens PRIMA5 58 KD SUBUNIT
5737	18831	32009	3.37	1.0E-81	U52351.1	NT	Homo sapiens arm-repeat protein NRPAP1/neurongin (CTNND2) mRNA, partial cds
5737	18831	32010	3.37	1.0E-81	U52351.1	NT	Homo sapiens arm-repeat protein NRPAP1/neurongin (CTNND2) mRNA, partial cds
6286	19342	32575	1.55	1.0E-81	BF674641.1	EST_HUMAN	602137854F1 NIH_MGC 83 Homo sapiens cDNA clone IMAGE:4274595 5'
6689	19756	33032	0.56	1.0E-81	11420986	NT	Homo sapiens phosphodiesterase 1C, calmodulin-dependent (70KD) (PDE1C) mRNA
6689	19756	33033	0.56	1.0E-81	11420986	NT	Homo sapiens phosphodiesterase 1C, calmodulin-dependent (70KD) (PDE1C) mRNA
8602	18954	33251	1.26	1.0E-81	AJ133286.1	NT	Homo sapiens cavin-1/2 locus, Contig1, D7S622, genes CAV2 (exons 1, 2a, and 2b), CAV1 (exons 1 and 2)

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8049	20988	34382	7.53	1.0E-81	11432968	NT	Homo sapiens polymerase (DNA directed), gamma (POL.G), mRNA
10134	23060	36537	7.65	1.0E-81	BE956278.1	EST_HUMAN	601845051F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3930228 5'
10134	23060	36538	7.65	1.0E-81	BE956278.1	EST_HUMAN	601845051F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3930228 5'
10328	23252	36731	4.63	1.0E-81	BE594367.1	EST_HUMAN	601431901F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3885483 5'
							601431901F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3885483 5'
							SW-620 st. Stralagene Hela cell s3 937216 Homo sapiens cDNA clone IMAGE:856427 3' similar to
							SW-620 YEAST P38126 HYPOTHETICAL 60.5 KD PROTEIN IN RPS101-RPS13 INTERGENIC REGION ;
10483	23385	36878	1.09	1.0E-81	AA650784.1	EST_HUMAN	601877339F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3838280 5'
10465	23387	36880	3.01	1.0E-81	BE744545.1	EST_HUMAN	601577339F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3838280 5'
10465	23387	36881	3.01	1.0E-81	BE744545.1	EST_HUMAN	601577339F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3838280 5'
10874	23764	37296	1.7	1.0E-81	AW697550.1	EST_HUMAN	CM8-NN0059-140400-147-412 NN0059 Homo sapiens cDNA
10874	23764	37296	1.7	1.0E-81	AW697550.1	EST_HUMAN	CM8-NN0059-140400-147-412 NN0059 Homo sapiens cDNA
11425	24359	37905	2.9	1.0E-81	AW844986.1	EST_HUMAN	MR0-CT0006-250599-019 CT0006 Homo sapiens cDNA
11425	24359	37905	2.9	1.0E-81	AW844986.1	EST_HUMAN	MR0-CT0006-250599-019 CT0006 Homo sapiens cDNA
11429	24373	37911	6.55	1.0E-81	AW798167.1	EST_HUMAN	RCS-UM0046-290200-011-a06 UM0046 Homo sapiens cDNA
11429	24373	37911	6.55	1.0E-81	AW798167.1	EST_HUMAN	RCS-UM0046-290200-011-a06 UM0046 Homo sapiens cDNA
11551	24724	38321	2.11	1.0E-81	AF204263.1	EST_HUMAN	601867714F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4110450 5'
12414	25188	31822	4.39	1.0E-81	11418138	NT	Homo sapiens photodiol (similar to apolipoprotein B mRNA editing protein) (DJ742C19.2), mRNA
13	13133	26031	0.94	8.0E-82	AF161408.1	NT	Homo sapiens HSPC288 mRNA, partial cds
107	13133	26031	2.07	8.0E-82	AF161406.1	NT	Homo sapiens HSPC288 mRNA, partial cds
263	13359	26284	2.7	8.0E-82	U05988.1	NT	Human CRFB4 gene, partial cds
815	13873	26821	14.95	8.0E-82	U05988.1	NT	Human CRFB4 gene, partial cds
888	13943	26801	1.44	8.0E-82	U05988.1	NT	Human CRFB4 gene, partial cds
1487	14520	27493	1.36	8.0E-82	AB037748.1	NT	Homo sapiens mRNA for KIAA1327 protein, partial cds
1696	14698	27674	1.7	8.0E-82	6715901	NT	Homo sapiens glutathione peroxidase 5 (epididymal androgen-related protein) (GPX5), transcript variant 2, mRNA
4114	17148	30040	0.92	8.0E-82	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4272	17301	30181	0.75	8.0E-82	8923432	NT	Homo sapiens hypothetical protein FLJ20461 (FLJ20461), mRNA
1444	14477	27569	2.93	7.0E-82	BF035327.1	EST_HUMAN	601438331F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3982086 5'
2777	15769	28724	1.8	7.0E-82	AU144050.1	EST_HUMAN	AU144050 HEMBA1 Homo sapiens cDNA clone IMAGE:1000782 3'
12053	24296	39389	1.75	7.0E-82	AA663747.1	EST_HUMAN	ee8564.4 st. Stralagene schizo brain S11 Homo sapiens cDNA clone IMAGE:968342 3'
1680	14712	27690	25.07	4.0E-82	AF081484.1	NT	Homo sapiens alpha-tubulin isoform 1, mRNA, complete cds
5574	18670	31632	0.89	4.0E-82	BF351691.1	EST_HUMAN	QV24-HT0540-120600-362-008 HT0540 Homo sapiens cDNA
5574	18670	31632	0.89	4.0E-82	BF351691.1	EST_HUMAN	QV24-HT0540-120600-362-008 HT0540 Homo sapiens cDNA
5951	18941	32126	0.59	4.0E-82	M29833.1	NT	Human von Willebrand factor gene, exon 9

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12025	24901	39496	7.32	4.0E-82	AI973900.1	EST_HUMAN	wp7609.x1 NCL CGMP_Bm25 Homo sapiens cDNA clone IMAGE:2467624 3' similar to TR-075276
12857	25337		3.69	4.0E-82	AF029701.2	NT	O76278 PKD11
							Homo sapiens presenilin-1 gene, exons 1 and 2
277	13373	26301	16.34	3.0E-82	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (precursor nexin-II, Alzheimer disease) (APP), mRNA
704	13766	26701	2.78	3.0E-82	BE005705.1	EST_HUMAN	RC3-BN0120-010400-013-02 BN0120 Homo sapiens cDNA
788	13847	26794	10.4	3.0E-82	5174702	NT	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
							Homo sapiens amyloid beta (A4) precursor protein (precursor nexin-II, Alzheimer disease) (APP), mRNA
871	13927	26885	6.11	3.0E-82	4502166	NT	al23a0.5.x1 Soares, testis, NHT Homo sapiens cDNA clone 1343648 3'
1062	14106		53.62	3.0E-82	AA725848.1	EST_HUMAN	RC3-P10001-190100-021-502 P10001 Homo sapiens cDNA
1357	14382	27353	1.01	3.0E-82	AW875073.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C086
1462	14495	27459	2.51	3.0E-82	AL163265.2	NT	RC1-BN0005-260700-018-g04 BN0005 Homo sapiens cDNA
1917	14841	27937	1.95	3.0E-82	BE813232.1	EST_HUMAN	Homo sapiens adenylyate cyclase activating polypeptide 1 (pituitary) receptor type I (ADCYAP1R1) mRNA
2023	15043	28056	1.2	3.0E-82	4501922	NT	Homo sapiens neurotrophic tyrosine kinase, receptor, type 2 (NTRK2) mRNA
3285	16339		2.31	3.0E-82	645381.1	NT	Homo sapiens ankyrin-like with transmembrane domains 1 (ANKTM1), mRNA
8492	21460	34877	2.7	3.0E-82	11425208	NT	Homo sapiens contactin 8 (CNTN8), mRNA
8902	21668	35292	0.77	3.0E-82	11432889	NT	Homo sapiens contactin 8 (CNTN8), mRNA
8902	21668	35293	0.77	3.0E-82	11432889	NT	Homo sapiens contactin 8 (CNTN8), mRNA
10183	23108	36550	3.98	3.0E-82	AB029000.1	NT	Homo sapiens mRNA for KIAA1077 protein, partial cds
10183	23108	36591	3.98	3.0E-82	AB029000.1	NT	Homo sapiens contactin 8 (CNTN8), mRNA
12108	24676	38577	1.6	3.0E-82	11432889	NT	Homo sapiens contactin 8 (CNTN8), mRNA
12108	24676	38578	1.6	3.0E-82	11432889	NT	Homo sapiens contactin 8 (CNTN8), mRNA
599	13560	28579	1.96	2.0E-82	AB023216.1	NT	Homo sapiens mRNA for KIAA0999 protein, partial cds
599	13560	28580	1.96	2.0E-82	AB023216.1	NT	Homo sapiens mRNA for KIAA0999 protein, partial cds
599	13560	28580	1.96	2.0E-82	AB023216.1	NT	Homo sapiens mRNA for KIAA0999 protein, partial cds
1694	14724	27707	2.73	2.0E-82	AL046390.1	EST_HUMAN	DKFZp434M117.1 434 (synonym: hba3) Homo sapiens cDNA clone DKFZp434M117.5
2991	16049	28870	0.76	2.0E-82	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C0001
3960	16859	29802	1.07	2.0E-82	D87875.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4052	17089	29084	0.65	2.0E-82	U76833.1	NT	Human integral membrane serine protease Seprase mRNA, complete cds
4261	17290	30171	1.07	2.0E-82	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4588	17610	30505	1.09	2.0E-82	AB029019.1	NT	Homo sapiens mRNA for KIAA1095 protein, partial cds
4588	17610	30506	1.09	2.0E-82	AB029019.1	NT	Homo sapiens mRNA for KIAA1095 protein, partial cds
							Homo sapiens wbsort1 (WBSOR1) and wbsort5 (WBSOR5) genes, complete cds, alternatively spliced and
4804	17921	30813	3.21	2.0E-82	AF045555.1	NT	replication factor C subunit 2 (RFC2) gene, complete cds

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5117	18127	31023	1.53	2.0E-82	4507580	NT	Homo sapiens tumor necrosis factor receptor superfamily, member 5 (TNFRSF5) mRNA
5117	18127	31033	1.53	2.0E-82	4507580	NT	Homo sapiens tumor necrosis factor receptor superfamily, member 5 (TNFRSF5) mRNA
5546	18643	31683	3.46	2.0E-82	AB018270.1	NT	Homo sapiens mRNA for KIAA0727 protein, partial cds
6299	19371	32610	4.59	2.0E-82	AF234882.1	NT	Homo sapiens FAM441 splice variant a (FAM441) mRNA, complete cds
7945	26004		0.88	2.0E-82	AI476428.1	EST_HUMAN	im21905.x1 Soares, NFL_T_QBC S1 Homo sapiens cDNA clone IMAGE:2157272 3'
8104	21041	34440	0.89	2.0E-82	8823130	NT	Homo sapiens hypothetical protein FL20128 (FL20128), mRNA
8989	21557	34973	0.89	2.0E-82	11431845	NT	Homo sapiens nucleotide binding protein 1 (E-coil MinD like) (NUPP1), mRNA
8848	21616	35038	1.94	2.0E-82	11321570	NT	Homo sapiens slit (Drosophila) homolog 3 (SLIT3), mRNA
9017	21983	35402	0.47	2.0E-82	7657340	NT	Homo sapiens microtubule (mouse) homolog (MORC), mRNA
9017	21983	35403	0.47	2.0E-82	7657340	NT	Homo sapiens microtubule (mouse) homolog (MORC), mRNA
10468	23390	36884	1.86	2.0E-82	Y08032.1	NT	Human endogenous retrovirus-K, LTR U5 and gag gene
10468	23390	36885	1.86	2.0E-82	Y08032.1	NT	Human endogenous retrovirus-K, LTR U5 and gag gene
11600	24538	38096	3.95	2.0E-82	11417191	NT	Homo sapiens leucylcystinyl aminopeptidase (LNPEP), mRNA
11600	24538	38096	3.95	2.0E-82	11417191	NT	Homo sapiens leucylcystinyl aminopeptidase (LNPEP), mRNA
11638	24575	38140	2.31	2.0E-82	U80738.1	NT	Homo sapiens CAGF9 mRNA, partial cds
11838	24575	38141	2.31	2.0E-82	U80738.1	NT	Homo sapiens CAGF9 mRNA, partial cds
12277	25062		1.94	2.0E-82	AL060680.1	EST_HUMAN	2371d10.st Soares parathyroid tumor_NhiHPA Homo sapiens cDNA clone IMAGE:305203 3'
12760	25403		4.39	2.0E-82	AA011278.1	EST_HUMAN	20709r1 Soares, fetal liver_apical, INFLU.S1 Homo sapiens cDNA clone IMAGE:429668 5'
13094	26598		1.53	2.0E-82	11418097	NT	Homo sapiens SRY (sex determining region Y)-box 10 (SOX10), mRNA
594	13661	26574	1.27	1.0E-82	11549821	NT	Homo sapiens melanoma differentiation associated protein-5 (MDA5), mRNA
1213	14261		1.09	1.0E-82	BE865106.1	EST_HUMAN	601510856F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912207 5'
1290	14325	27286	2.11	1.0E-82	BE064388.1	EST_HUMAN	RC4-BT0310-110300-015-10 BT0310 Homo sapiens cDNA
1291	14326	27287	1.07	1.0E-82	AB011110.2	NT	Homo sapiens mRNA for KIAA0538 protein, partial cds
9294	22260	35689	1.09	1.0E-82	AB037838.1	NT	Homo sapiens mRNA for KIAA1417 protein, partial cds
10011	22638	36403	0.56	1.0E-82	AB014562.1	NT	Homo sapiens mRNA for KIAA0862 protein, partial cds
10068	23288		1.24	1.0E-82	BF515838.1	EST_HUMAN	U1H.BW1.soes-03-0-Jul.1 NCI_CGAP Sub.7 Homo sapiens cDNA clone IMAGE:3084053 3'
11097	24057	37681	1.87	1.0E-82	AL06209.2	NT	Homo sapiens chromosome 21 segment HS21C009
9065	22031	35454	4.87	9.0E-83	BF672220.1	EST_HUMAN	602190403F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4291961 5'
10637	23559	37058	0.92	9.0E-83	BE263347.1	EST_HUMAN	60171760F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3357734 5'
1412	14445	27417	1.55	8.0E-83	BE383973.1	EST_HUMAN	601273346F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614362 5'
1691	15820	27702	4.08	8.0E-83	N68951.1	EST_HUMAN	32d8r12.61 Soares fetal liver spleen INFLU.S1 Homo sapiens cDNA clone IMAGE:265823 3'
1359	14394	27364	0.99	7.0E-83	AW385528.1	EST_HUMAN	QV4.LT0016-271289-068-h11.LT0016 Homo sapiens cDNA
							not12h01.st NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100497 3' similar to contains Alu repetitive element;
2878	15935		1.92	7.0E-83	AA584855.1	EST_HUMAN	

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4853	17870		7.64	7.0E-83	BF221813.1	EST_HUMAN	7p37ac7.x1 NCI_GGAP_P28 Homo sapiens cDNA clone IMAGE:3647893 3' similar to TRO37318 Q9Y318
6169	19244	32476	0.73	7.0E-83	11426857	NT	DJ207H1.1 ;
403	13476	28410	3.07	6.0E-83	M333320.1	NT	Homo sapiens KIAA0100 gene product (KIAA0100). mRNA Human placental Glycoprotein IIb (GPIIb) gene, exons 2-29
1802	14830	27817	1.08	6.0E-83	AW673088.1	EST_HUMAN	H31103.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2833525 3' similar to
3034	16098	29008	0.64	6.0E-83	AW184605.1	EST_HUMAN	SW17BEB_HAEN P44471 HYPOTHELICAL PROTEIN HD034. ;
3064	16121	30363	0.97	6.0E-83	AF231919.1	NT	QVA-S10234-181199-037-405 ST0234 Homo sapiens cDNA
3083	18140	29051	1.03	6.0E-83	AA701457.1	EST_HUMAN	z156c05.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:435080 3'
3375	16820	29541	2.34	6.0E-83	11430241	NT	Homo sapiens hypothetical protein FLJ10378 (FLJ10378). mRNA
5167	18176	31054	1.2	6.0E-83	4827033	NT	Homo sapiens tumor necrosis factor (ligand) superfamily, member 18 (TNFSF18) mRNA Homo sapiens VAMP (vesicle-associated membrane protein)-associated protein A (339d) (VAPA) mRNA, and translated products
5368	18471	31342	1.53	6.0E-83	4507866	NT	Homo sapiens hyperion gene, exons 1-50
6139	19215	32444	1.32	6.0E-83	AJ010770.1	NT	Homo sapiens met proto-oncogene (hepatocyte growth factor receptor) (MET). mRNA
7745	20659	34068	2.1	6.0E-83	11420234	NT	Homo sapiens myomesin (M-protein) 2 (165d) (MYOM2). mRNA
10035	22592	38430	2.5	6.0E-83	4305314	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Prip18 (PRP18). mRNA
10127	23053	39531	0.78	6.0E-83	11430647	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Prip18 (PRP18). mRNA
10127	23053	39532	0.78	6.0E-83	11430647	NT	abl4e10.x1 Stragapene lung (9837210) Homo sapiens cDNA clone IMAGE:840810 3' similar to contains THR.L2 THR repetitive element.
11559	24741		2.01	6.0E-83	AA486105.1	EST_HUMAN	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12179	25027		5.85	6.0E-83	AF240786.1	NT	Human succinate dehydrogenase iron-protein subunit (sdhB) gene, exon 6
945	13398		1.42	5.0E-83	U17853.1	NT	Homo sapiens 26S proteasome regulatory subunit (SUG2) mRNA, complete cds
2093	15823		1	5.0E-83	AF008305.1	NT	Novel human gene mapping to chromosome X
3932	16695	28610	0.97	5.0E-83	AL133207.2	NT	Novel human gene mapping to chromosome X
3926	16566	28879	1.02	5.0E-83	4985190	NT	Homo sapiens diacylglycerol kinase (DNASE1). mRNA
5115	18125	31000	14.32	5.0E-83	4557013	NT	Homo sapiens cathepsin (CAT) mRNA
5115	18125	31001	14.32	5.0E-83	4557013	NT	Homo sapiens cathepsin (CAT) mRNA
5245	18253	31124	0.93	5.0E-83	4505802	NT	Homo sapiens phosphatidylinositol 3-kinase, catalytic, gamma polypeptide (PIK3CG) mRNA
641	13707	26628	2.28	4.0E-83	AF224689.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D-3) genes, complete cds
3525	16571	29494	1	4.0E-83	BE988077.1	EST_HUMAN	601511880F11H_MGC_71 Homo sapiens cDNA clone IMAGE:3913195 5'
900	14050		5.39	3.0E-83	AA358831.1	EST_HUMAN	EST795422 Placenta1 Homo sapiens cDNA similar to similar to endogenous retrovirus ERV8

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2788	15790		1.82	3.0E-83	AA632854.1	EST_HUMAN	np87c07.s1 NCI CGAP Thy1 Homo sapiens cDNA clone IMAGE:1133292 similar to contains THR12 THR repetitive element;
8730	19786		0.72	3.0E-83	AI217223.1	EST_HUMAN	q73g06.x1 Soares testis, NHT Homo sapiens cDNA clone IMAGE:1765682 3'
1816	14843	27834	1.88	2.0E-83	AA930492.1	EST_HUMAN	Q92814 MYELOBLAST KIA0216.1
1816	14843	27835	1.68	2.0E-83	AA930492.1	EST_HUMAN	Q92814 MYELOBLAST KIA0216.1
1942	14966	27863	3.01	2.0E-83	NC69561.1	EST_HUMAN	Q92814 MYELOBLAST KIA0216.1
2864	15924	28843	1.36	2.0E-83	BE626894.1	EST_HUMAN	RC6-E10046-280600-013-H12 ET0046 Homo sapiens cDNA
3282	16396		2.14	2.0E-83	11430834	NT	Homo sapiens sal (Drosophila)-like 1 (SALL1), mRNA
3780	18929		0.87	2.0E-83	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
4363	17390	30272	9.76	2.0E-83	AF202879.1	NT	Homo sapiens hemopoietic progenitor cell antigen CD34 precursor (CD34), mRNA, partial cds
4681	17702		6.03	2.0E-83	7706398	NT	Homo sapiens hemopoietic progenitor cell antigen CD34 precursor (CD34), mRNA, partial cds
4681	17702	30591	6.03	2.0E-83	7706398	NT	Homo sapiens hemopoietic progenitor cell antigen CD34 precursor (CD34), mRNA, partial cds
5343	18448	31319	0.94	2.0E-83	U06679.1	NT	Homo sapiens ankyrin repeat-containing protein ASB-2 (LOC51676), mRNA
5547	18644	31584	1.09	2.0E-83	11024711	NT	Homo sapiens ankyrin repeat-containing protein ASB-2 (LOC51676), mRNA
5547	18644	31585	1.09	2.0E-83	11024711	NT	Homo sapiens ankyrin repeat-containing protein ASB-2 (LOC51676), mRNA
5945	19031	32224	0.54	2.0E-83	11428081	NT	Homo sapiens ankyrin repeat-containing protein ASB-2 (LOC51676), mRNA
6076	19157	32569	1.21	2.0E-83	BE885401.1	EST_HUMAN	Homo sapiens ankyrin repeat-containing protein ASB-2 (LOC51676), mRNA
7689	20628	33692	5.47	2.0E-83	AF128533.1	NT	Homo sapiens ankyrin repeat-containing protein ASB-2 (LOC51676), mRNA
8103	21039	34438	0.52	2.0E-83	BF105097.1	EST_HUMAN	Homo sapiens ankyrin repeat-containing protein ASB-2 (LOC51676), mRNA
8175	21145	34551	0.55	2.0E-83	AB001025.1	NT	Homo sapiens ankyrin repeat-containing protein ASB-2 (LOC51676), mRNA
8175	21145	34552	0.55	2.0E-83	AB001025.1	NT	Homo sapiens ankyrin repeat-containing protein ASB-2 (LOC51676), mRNA
8319	21288	34702	1.48	2.0E-83	U06670.1	NT	Homo sapiens ankyrin repeat-containing protein ASB-2 (LOC51676), mRNA
8657	21625	35046	2.5	2.0E-83	AF011920.1	NT	Rattus norvegicus desmin-180 mRNA, complete cds
9652	22879	36342	0.46	2.0E-83	5453381	NT	Homo sapiens protein kinase CK2 catalytic subunit alpha gene, exon 1
9652	22879	36343	0.46	2.0E-83	5453381	NT	Homo sapiens protein kinase CK2 catalytic subunit alpha gene, exon 1
10242	23167	36684	0.43	2.0E-83	BF128748.1	EST_HUMAN	Homo sapiens phosphotyrosine kinase, gamma 1 (muscle) (PHKG1), mRNA
10394	23316	36796	2.53	2.0E-83	M22064.1	NT	Homo sapiens phosphotyrosine kinase, gamma 1 (muscle) (PHKG1), mRNA
10394	23316	36796	2.53	2.0E-83	M22064.1	NT	Homo sapiens phosphotyrosine kinase, gamma 1 (muscle) (PHKG1), mRNA
10475	23397	36895	1.2	2.0E-83	AU117659.1	EST_HUMAN	Homo sapiens phosphotyrosine kinase, gamma 1 (muscle) (PHKG1), mRNA
10549	23471	36986	0.74	2.0E-83	AW505600.1	EST_HUMAN	Homo sapiens phosphotyrosine kinase, gamma 1 (muscle) (PHKG1), mRNA
11195	24150	37681	3.48	2.0E-83	11456448	NT	Human neural cell adhesion molecule (NCAM) secreted isoform mRNA, 3' end U11HF-BNO-and-h-07-Q-U1 NIH, JMG, 50 Homo sapiens cDNA clone IMAGE:3081852 5' Homo sapiens KIA0095 protein (KIA0095), mRNA

Table 4

Single Exon Probes Expressed In Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11272	24224	37749	1.84	2.0E-83	AL134452.1	EST_HUMAN	DKFZp547J135.11 547 (synonym: fibr1) Homo sapiens cDNA clone DKFZp547J135.5'
11272	24224	37750	1.84	2.0E-83	AL134452.1	EST_HUMAN	DKFZp547J135.11 547 (synonym: fibr1) Homo sapiens cDNA clone DKFZp547J135.5'
12802	25426		4.91	2.0E-83	AB011368.1	NT	Homo sapiens gene for AIF-3, complete cds
1410	14443	27414	1.56	1.0E-83	4504326	NT	Homo sapiens hydroxycy-Coenzyme A dehydrogenase/3-oxoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADH1B) mRNA
1410	14443	27415	1.56	1.0E-83	4504326	NT	Homo sapiens hydroxycy-Coenzyme A dehydrogenase/3-oxoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADH1B) mRNA
1453	14486	27461	0.93	1.0E-83	AF105087.1	NT	Homo sapiens lipopolysaccharide-binding protein (LBP) mRNA, complete cds
1453	14486	27462	0.93	1.0E-83	AF105087.1	NT	Homo sapiens lipopolysaccharide-binding protein (LBP) mRNA, complete cds
2695	19652	28681	1.16	1.0E-83	BE883690.1	EST_HUMAN	601807375F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3808754.5'
3188	18253	26173	0.65	1.0E-83	7662348	NT	Homo sapiens cell recognition molecule Casp-2 (KIAA0868), mRNA
3882	18922	29830	3.33	1.0E-83	AF033768.1	NT	Rattus norvegicus brain specific corticactin-binding protein CBP30 mRNA, partial cds
4273	17502	30182	2.31	1.0E-83	Z25822.1	NT	H. sapiens gene for mitochondrial dodecenoyl-CoA dehydrogenase, exon 3
6854	19607	33203	1.53	1.0E-83	AI027614.1	EST_HUMAN	ov69808.x1 Soares Testis, NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958863.5'
3610	19650	26758	3.98	7.0E-84	BE901206.1	EST_HUMAN	601876023F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958863.5'
1298	14333	27294	4.11	6.0E-84	BE838864.1	EST_HUMAN	RC2-FN0119-200600-011-p05 FN0119 Homo sapiens cDNA
1298	14333	27295	4.11	6.0E-84	BE838864.1	EST_HUMAN	RC2-FN0119-200600-011-p05 FN0119 Homo sapiens cDNA
2407	15414	28438	5.78	6.0E-84	AA776574.1	EST_HUMAN	aa6804.s1 Straatene schizo brain S11 Homo sapiens cDNA clone IMAGE:971020.3'
5311	18328		1.9	6.0E-84	AL042863.2	EST_HUMAN	DKFZp434H0322.1 434 (synonym: hhes) Homo sapiens cDNA clone DKFZp434H0322.5'
5596	18822	31682	1.89	6.0E-84	AA897335.1	EST_HUMAN	ak7003.s1 Soares NFL_T_GSC_S1 Homo sapiens cDNA clone IMAGE:1460500.3' similar to gb:M14338
5743	18837	32018	1.09	6.0E-84	11428718	NT	VITAMIN K-DEPENDENT PROTEIN S PRECURSOR (HUMAN); Homo sapiens acyl/LDL receptor, SREB-scavenger receptor expressed by endothelial cells (SREC), mRNA
5743	18837	32019	1.09	6.0E-84	11428718	NT	Homo sapiens acyl/LDL receptor, SREB-scavenger receptor expressed by endothelial cells (SREC), mRNA
7714	20671	34038	3.35	6.0E-84	BE810371.1	EST_HUMAN	PMO-L10019-190600-004-F02 L10019 Homo sapiens cDNA
7695	20896	34289	0.89	6.0E-84	AF103891.1	NT	Homo sapiens pre-mRNA splicing factor (PRP16) mRNA, complete cds
8408	21377	34783	2.05	6.0E-84	BE770169.1	EST_HUMAN	PMO-L10054-190600-004-e10 F10054 Homo sapiens cDNA
715	13777	26712	0.81	5.0E-84	AA382811.1	EST_HUMAN	EST88064 Testis 1 Homo sapiens cDNA 5' end
3027	18084		1.54	5.0E-84	AF109718.1	NT	Homo sapiens chromosome 3 subtelomeric region
8227	18301	32634	0.49	5.0E-84	AA167878.1	EST_HUMAN	z439e07.r1 Straatene INT neuron (#937293) Homo sapiens cDNA clone IMAGE:632100.5' similar to TR:G463916 G463916 RETROTRANSPOSABLE L1 ELEMENT LRE2 FROM CHROMOSOME 1Q.;

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar ("Top") Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11871	24753	38334	2.06	5.0E-84	11428740	NT	Homo sapiens regulatory factor X, 3 (influences HLA class II expression) (RFX3), mRNA
11954	24843	38437	2.29	5.0E-84	AB032957.1	NT	Homo sapiens mRNA for KIAA1131 protein, partial cds
11984	24843	38438	2.26	5.0E-84	AB032957.1	NT	Homo sapiens mRNA for KIAA1131 protein, partial cds
1409	14442	27413	1.69	4.0E-84	AB85321.1	EST_HUMAN	wa7604.x1 Soares, NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2302086 3' similar to
4987	18002	30891	0.99	4.0E-84	4505628	NT	SWNPDC.HUMAN 043847 NARADIL YSIN PRECURSOR;
4988	18003	30892	2.19	4.0E-84	AF069601.2	NT	Homo sapiens polymerase (DNA-directed), alpha (70kD) (POLA2), mRNA
5351	18440	31193	0.53	4.0E-84	AF022835.1	NT	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
5642	18738	31902	1.28	4.0E-84	11386168	NT	Homo sapiens multidrug resistance protein (MRP), exon 13
5642	18738	31903	1.28	4.0E-84	11386168	NT	Homo sapiens multidrug resistance protein (MRP), exon 13
6399	19497	32714	1.89	4.0E-84	AF059650.1	NT	Homo sapiens protein tyrosine phosphatase, receptor type, G (PTPRG), mRNA
7809	20852	34239	12.53	4.0E-84	11421326	NT	Homo sapiens histone deacetylase 3 (HDAC3) gene, complete cds
9262	22228	35658	0.9	4.0E-84	4557528	NT	Homo sapiens KIAA0783 gene product (KIAA0783), mRNA
9262	22228	35659	0.9	4.0E-84	4557528	NT	Homo sapiens KIAA0783 gene product (KIAA0783), mRNA
11283	24215	37739	5.34	4.0E-84	AB023956.1	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
316	13408	26334	1.92	3.0E-84	AF026200.1	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
1157	14190	27149	5.95	3.0E-84	4738081	NT	Homo sapiens mRNA for KIAA1130 protein, partial cds
1977	14698	28000	1.24	3.0E-84	5453855	NT	Homo sapiens Bact1 protein homolog mRNA, partial cds
2024	15044	28057	3.11	3.0E-84	AL096880.1	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
3604	18649	29565	1.15	3.0E-84	AB026993.1	NT	Homo sapiens pericentriolar material 1 (PCM1) mRNA
3782	18803	29715	6.28	3.0E-84	AF014459.1	NT	Novel human mRNA containing Zinc finger C2H2 type domains
11226	24179		17.2	3.0E-84	AB983801.1	EST_HUMAN	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
2115	15132	28153	5.68	2.0E-84	BE695397.1	EST_HUMAN	Homo sapiens X-linked juvenile retinoblastoma precursor protein (KLRS1) mRNA, complete cds
2115	15132	28154	5.68	2.0E-84	BE695397.1	EST_HUMAN	Homo sapiens X-linked juvenile retinoblastoma precursor protein (KLRS1) mRNA, complete cds
2854	18012	28639	7.98	2.0E-84	AF036943.1	NT	wu20405.x1 Soares, Dieckgrede, cdon, NHGD Homo sapiens cDNA clone IMAGE:2520585 3' similar to
2873	18031	28694	1.35	2.0E-84	X69211.1	NT	gclL0063.003 RIBOSOMAL PROTEIN L18A (HUMAN);
5804	18700	31671	0.88	2.0E-84	BF511575.1	EST_HUMAN	GM1-BT10795-190600-272-508 BT10795 Homo sapiens cDNA
5804	18700	31672	0.88	2.0E-84	BF511575.1	EST_HUMAN	GM1-BT10795-190600-272-508 BT10795 Homo sapiens cDNA
6793	19847	33132	0.88	2.0E-84	BF63370.1	EST_HUMAN	Homo sapiens myelin transcription factor 1-like (MYT1-L) mRNA, complete cds
8392	21381	35121	1.62	2.0E-84	AL286674.1	EST_HUMAN	H sapiens DNA for endogenous retroviral like element
8728	21696	35121	0.56	2.0E-84	AL163204.2	NT	U1-HB14-aa-4-02-0-U1.s1 NCI_CGAP_Su88 Homo sapiens cDNA clone IMAGE:3084963 3'
8728	21696	35122	0.56	2.0E-84	AL163204.2	NT	U1-HB14-aa-4-02-0-U1.s1 NCI_CGAP_Su88 Homo sapiens cDNA clone IMAGE:3084963 3'
8728	21696	35122	0.56	2.0E-84	AL163204.2	NT	yf56et1.81 Soares fetal liver spleen; 1NfLS Homo sapiens cDNA clone IMAGE:209324 3'
8728	21696	35122	0.56	2.0E-84	AL163204.2	NT	qm87/c09.x1 NCI_CGAP_Lu8 Homo sapiens cDNA clone IMAGE:1865728 3'
8728	21696	35122	0.56	2.0E-84	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
8728	21696	35122	0.56	2.0E-84	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6701	22654	38108	0.99	2.0E-84	AU120280.1	EST_HUMAN	AU120280 HEMBB1 Homo sapiens cDNA clone HEMBB1000339 5'
10089	23015	36491	0.55	2.0E-84	H22841.1	EST_HUMAN	ym4ed1.1 rat Scars infant brain IN1B Homo sapiens cDNA clone IMAGE:51383 5' similar to SP:APOH_RAT P28644 BETA-2-GLYCOPROTEIN I;
12445	26206	31829	3.26	2.0E-84	BF448000.1	EST_HUMAN	na330023.1 Lupsak1 synpethetic trunk Homo sapiens cDNA clone IMAGE:490251 3' similar to TR:QBUS33 QBUS33 DJ756G23.1;
12445	25206	31830	3.26	2.0E-84	BF448000.1	EST_HUMAN	na330023.1 Lupsak1 synpethetic trunk Homo sapiens cDNA clone IMAGE:490251 3' similar to TR:QBUS33 QBUS33 DJ756G23.1;
312	13404	26330	1.44	1.0E-84	AF114488.1	NT	Homo sapiens Interactin short isoform (ITSN) mRNA, complete cds Homo sapiens tyrosine 3-monooxygenase/hypoxanthine 6-monooxygenase activation protein, zeta polypeptide (YWHAZ) mRNA
551	13621	26541	15.79	1.0E-84	4507952	NT	Homo sapiens complement component 5 (C5), mRNA
721	13783		1.16	1.0E-84	11427631	NT	emb5511.1 rat Stradiene schizobrain S11 Homo sapiens cDNA clone IMAGE:192885 3'
1296	14331	27292	3.1	1.0E-84	AA894379.1	EST_HUMAN	501300006F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3629257 5'
2070	15087	28105	2.34	1.0E-84	BE392137.1	EST_HUMAN	Homo sapiens pericentriolar material 1 (PCMT1), mRNA
2232	16248	28269	1.27	1.0E-84	11427197	NT	nm1206.1 rat NCL CGAP_SS1 Homo sapiens cDNA clone IMAGE:1239106 3'
3764	16806	29717	2.47	1.0E-84	AA720851.1	EST_HUMAN	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3 DKFZp434N0323_1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434N0323 5'
4446	17472	30360	3.92	1.0E-84	AL043314.2	EST_HUMAN	DKFZp434N0323_1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434N0323 5'
4728	17748	30639	2.66	1.0E-84	AL043314.2	EST_HUMAN	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
4728	17748	30640	2.66	1.0E-84	AL043314.2	EST_HUMAN	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
4849	17472	30360	2.12	1.0E-84	AJ228041.1	NT	Homo sapiens spectrin-type POZ protein (SPOP), mRNA
6029	19112	32314	0.86	1.0E-84	11434422	NT	utricule water channel-28 kDa erythrocyte integral membrane protein homolog [human, uterus, mRNA, 1340 nt]
6314	19385	32627	1.38	1.0E-84	S73482.1	NT	Novel human gene mapping to chromosome 13
7064	20086	33394	1.44	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
7064	20086	33395	1.44	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
7314	20285	33628	2.62	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
7708	20965	34032	4.72	1.0E-84	8393994	NT	Homo sapiens polymerase (DNA directed), alpha (POLA), mRNA
7814	20763	34139	0.83	1.0E-84	11430846	NT	Homo sapiens NGF-A binding protein 1 (ERG1 binding protein 1) (NAB1), mRNA
7859	20763	34139	2.13	1.0E-84	11430846	NT	Homo sapiens NGF-A binding protein 1 (ERG1 binding protein 1) (NAB1), mRNA
8983	22848		2.91	1.0E-84	5031984	NT	Homo sapiens nuclear transport factor 2 (nuclear protein 15) (PPT15) mRNA
10128	23054	36533	0.62	1.0E-84	AF224511.1	NT	Homo sapiens Cuz2-binding protein CABP3 (CABP3) gene, exon 6 and partial cds
10150	18337	31286	2.95	1.0E-84	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
10150	18337	31286	2.95	1.0E-84	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
12121	20285	33626	2.67	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
12324	25726		2.03	1.0E-84	11417812	NT	Homo sapiens putative receptor P2X-like 1, orphan receptor (P2RX1L), mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12436	28201	31825	2.32	1.0E-84	11418185	NT	Homo sapiens acaninase 2, mitochondrial (AC02), mRNA
688	14020			1.9	9.0E-85	AL163206.2	Homo sapiens chromosome 21 segment HS21C069
1074	14119	27069	2.21	9.0E-85	U51432.1	NT	Homo sapiens nuclear protein Skip mRNA, complete cds
1074	14119	27070	2.21	9.0E-85	U51432.1	NT	Homo sapiens nuclear protein Skip mRNA, complete cds
1381	14614	27568	1.31	9.0E-85	M33282.1	NT	Human plasminogen gene, exon 7
1581	14614	27567	1.31	9.0E-85	M33282.1	NT	Human plasminogen gene, exon 7
1684	14715	27665	2.95	9.0E-85	7657020	NT	Homo sapiens DKFZP434P211 protein (DKFZP434P211), mRNA
4280	17309	30188	1.11	9.0E-85	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
4913	17930	30821	1.05	9.0E-85	5901978	NT	Homo sapiens heat shock transcription factor 2 binding protein (HSIF2BP), mRNA
4950	17965	30855	1	9.0E-85	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C068
1138	14181	27132	13.33	7.0E-85	LO5094.1	NT	Homo sapiens ribosomal protein L27 mRNA, complete cds
11858	24837		9.76	7.0E-85	AF113210.1	NT	Homo sapiens MST1P030 mRNA, complete cds
11745	24630	38209	2.51	6.0E-85	11438573	NT	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 10 (RNA helicase) (DDX10), mRNA
11745	24630	38210	2.51	6.0E-85	11438573	NT	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 10 (RNA helicase) (DDX10), mRNA
2340	15350	28371	1.67	5.0E-85	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
5526	18625	31560	1.37	5.0E-85	BF035674.1	EST_HUMAN	601458646F1 NIH_MGC_98 Homo sapiens cDNA clone IMAGE:3862402 5'
5528	18625	31561	1.37	5.0E-85	BF035674.1	EST_HUMAN	601458646F1 NIH_MGC_98 Homo sapiens cDNA clone IMAGE:3862402 5'
13030	18344		6.19	5.0E-85	AF211189.1	NT	Homo sapiens T-type calcium channel alpha1 subunit Alpha1a isoform (CACNA1I) mRNA, complete cds
6271	19344	32576	1.42	4.0E-85	BF677910.1	EST_HUMAN	602084730F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4246087 5'
6271	19344	32577	1.42	4.0E-85	BF677910.1	EST_HUMAN	602084730F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4246087 5'
7013	20136	33456	0.58	4.0E-85	A1628119.1	EST_HUMAN	164401.X1 NCJ CGAP K411 Homo sapiens cDNA clone IMAGE:2285808 3'
10937	23857		1.35	4.0E-85	BE079283.1	EST_HUMAN	RC145T0823-120200-011-c07 BT0623 Homo sapiens cDNA
12375	25772		1.31	4.0E-85	Z18867.1	EST_HUMAN	HSDFH0033 Strategene cDNA library Human heart, cat#636208 Homo sapiens cDNA clone HEGC03
1302	14336	27301	1.02	3.0E-85	AF096157.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 6
1795	14824	27608	3.9	3.0E-85	T97495.1	EST_HUMAN	Y65309.r1 Soares fetal liver spleen INFL3 Homo sapiens cDNA clone IMAGE:121504 5'
4935	17951	30842	1.37	3.0E-85	11024685	NT	Homo sapiens F-box only protein 24 (FBXO24), mRNA
4935	17951	30843	1.37	3.0E-85	11024685	NT	Homo sapiens F-box only protein 24 (FBXO24), mRNA
5475	18576	31465	0.95	3.0E-85	11436901.1	NT	Homo sapiens lactadherin rich protein (LPRP), mRNA
6204	18278	32511	0.66	3.0E-85	11422024	NT	Homo sapiens met proto-oncogene (hepatocyte growth factor receptor) (MET), mRNA
6257	19530	32560	5.89	3.0E-85	7662209	NT	Homo sapiens KIAA0785 gene product (KIAA0785), mRNA

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6267	19330	32561	5.69	3.0E-85	7662309	NT	Homo sapiens KIAA0793 gene product (KIAA0793), mRNA
7140	20116		7.73	3.0E-85	AJ404468.1	NT	Homo sapiens mRNA for dynamin heavy chain (DNAH9 gene)
7626	20586		0.88	3.0E-85	11416870	NT	Homo sapiens GTPase regulator associated with the focal adhesion kinase pp125(FAK); KIAA0821, protein (KIAA0821), mRNA
8204	21174	33949	1.64	3.0E-85	U44953.1	NT	Homo sapiens DENN1 mRNA, complete cds
8853	21820	35240	1.06	3.0E-85	11525820	NT	Homo sapiens C9orf1 protein (LOC51108), mRNA
9326	22284	35723	3.37	3.0E-85	11430869	NT	Homo sapiens phospholipase C, epsilon (PLCE), mRNA
9681	22818	36272	1.03	3.0E-85	11421422	NT	Homo sapiens small nuclear ribonucleoprotein polypeptide B' (SNRPB2), mRNA
9681	22818	36272	1.03	3.0E-85	11421422	NT	Homo sapiens small nuclear ribonucleoprotein polypeptide B'' (SNRPB2), mRNA
10849	23789	37268	1.16	3.0E-85	AF09842.1	NT	Homo sapiens phospholipid scramblase mRNA, complete cds
11834	24717	38303	1.72	3.0E-85	5031680	NT	Homo sapiens EGF-like repeats and discoidin like domains 3 (EDIL3), mRNA
12919	25495		2.14	3.0E-85	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
964	14016	26970	0.87	2.0E-85	7657265	NT	Homo sapiens KIAA0929 protein Mx2 interacting nuclear target (MINT) homolog (KIAA0929), mRNA
1041	14037	27039	2.52	2.0E-85	AF248540.1	NT	Homo sapiens intercalin 2 (SH3D1B) mRNA, complete cds
1418	14451	27424	8.49	2.0E-85	5174775	NT	Homo sapiens apolipoprotein C-II (APOC2) mRNA
1418	14451	27425	8.49	2.0E-85	5174775	NT	Homo sapiens apolipoprotein C-II (APOC2) mRNA
2239	15253	28277	1.8	2.0E-85	U10525.1	NT	Human DNA polymerase beta gene, exons 12 and 13
2834	14375		14.69	2.0E-85	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L), mRNA
3035	16093	29011	1.16	2.0E-85	M30638.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
4361	17388	30270	4.83	2.0E-85	4505880	NT	Homo sapiens plasminogen (PLG) mRNA
4948	17994	30854	0.93	2.0E-85	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
5178	18187	31084	1.37	2.0E-85	4502212	NT	Homo sapiens arginase, liver (ARG1) mRNA
6628	22572	36922	2.67	2.0E-85	AJ759820.1	EST_HUMAN	MSR1 repetitive element
10007	22634	36398	0.94	2.0E-85	AJ614456.1	EST_HUMAN	w448603.x1 Scores: NFI, T, GBC, S1 Homo sapiens cDNA clone IMAGE:2331461 3'
10625	23047	37048	1.31	2.0E-85	AJ686394.1	EST_HUMAN	w448612.x1 NCI_CGAP_U2 Homo sapiens cDNA clone IMAGE:243607 3'
2295	15307		2.51	1.0E-85	BE794306.1	EST_HUMAN	601597416F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945816 5'
2403	15410	28434	6.6	1.0E-85	BE618392.1	EST_HUMAN	601462817F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:396021 5'
2403	15410	28435	6.6	1.0E-85	BE618392.1	EST_HUMAN	601462817F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:396021 5'
8091	21027	34428	0.52	1.0E-85	BE002951.1	EST_HUMAN	MR0-BT0264-221199-002-03 BT0264 Homo sapiens cDNA
10140	23066	35642	2.41	1.0E-85	BE257917.1	EST_HUMAN	601108738F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3350663 5'
10571	23493	36965	0.93	1.0E-85	AW613525.1	EST_HUMAN	RC1-ST0159-087-089-011-008 ST0159 Homo sapiens cDNA
11268	24221	37145	2.01	1.0E-85	AA778785.1	EST_HUMAN	Z4503.x1 Scores: NFI, T, GBC, S1 Homo sapiens cDNA clone IMAGE:453246 3'

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11269	24221	37746	2.01	1.0E-95	AA778785.1	EST_HUMAN	Z14503.s1 Soares fetal liver spleen 1NFLS_S1 Homo sapiens cDNA clone IMAGE:453245 3'
11342	24292	37816	2.46	1.0E-85	BF311552.1	EST_HUMAN	601897003F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128440 5'
11342	24292	37817	2.46	1.0E-85	BF311552.1	EST_HUMAN	601897003F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128440 5'
12034	24937	39533	2.37	1.0E-85	AI198420.1	EST_HUMAN	q160a07.1 NCI CGAP Bm28 Homo sapiens cDNA clone IMAGE:1860488 3'
12328	25269	31780	3.47	1.0E-85	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIA06330), mRNA
12353	25269	31780	3.37	1.0E-85	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIA06330), mRNA
1428	14459	32552	12.78	9.0E-86	BE274217.1	EST_HUMAN	601120778F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2867690 5'
6249	19322	32552	1.27	8.0E-86	11424140	NT	Homo sapiens similar to CDC28 protein kinase 1 (H. sapiens) (LOC58041), mRNA
12004	24981	38477	1.57	8.0E-86	4503224	NT	Homo sapiens cytochrome P450, subfamily IIF, polypeptide 1 (CYP2F1), mRNA
638	13989	28939	0.83	7.0E-86	AA890801.1	EST_HUMAN	q8808.s1 Soares parathyroid tumor, NblHPA Homo sapiens cDNA clone IMAGE:1403559 3'
638	13989	28940	0.83	7.0E-86	AA890801.1	EST_HUMAN	q8808.s1 Soares parathyroid tumor, NblHPA Homo sapiens cDNA clone IMAGE:1403559 3'
6320	16391	32631	0.83	7.0E-86	9666888	NT	Homo sapiens tumor endothelial marker 7 precursor (TEM7), mRNA
6320	16391	32632	0.85	7.0E-86	9666888	NT	Homo sapiens tumor endothelial marker 7 precursor (TEM7), mRNA
7169	18400	31246	6.12	7.0E-86	11421737	NT	Homo sapiens Tact (human T-cell leukemia virus type I) binding protein 1 (TAX1BP1), mRNA
6096	22062	35487	4.12	7.0E-86	L38557.1	NT	Homo sapiens galactose oxidase (GALC) gene, exon 15
10058	22985	36522	1.49	7.0E-86	5453967	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
10118	23042	36522	1.67	7.0E-86	11623037	NT	Homo sapiens DiGeorge syndrome critical region gene 6 (DGCR6), mRNA
1297	14332	27293	3.26	6.0E-86	4505492	NT	Homo sapiens octadecate dehydrogenase (lipamide) (OGDH), mRNA
212	13312	26241	1.75	4.0E-86	BE547173.1	EST_HUMAN	601072994F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3488830 5'
6151	19226	32455	10.99	4.0E-86	BE295843.1	EST_HUMAN	601178956F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531693 5'
11572	13312	26241	2.44	4.0E-86	BE547173.1	EST_HUMAN	601072994F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3488830 5'
5877	18772	31944	6.64	3.0E-86	AW340946.1	EST_HUMAN	x62h12.x1 NCI CGAP Lu24 Homo sapiens cDNA clone IMAGE:2871719 3'
8805	21573	34988	1.12	3.0E-86	AW723239.1	EST_HUMAN	AY723239 HTB Homo sapiens cDNA clone HTBESD04.5
10381	23503	39895	3.26	3.0E-86	BE866478.1	EST_HUMAN	601509898F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911303 5'
10581	23503	39896	3.26	3.0E-86	BE866478.1	EST_HUMAN	601509898F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911303 5'
11764	23918	37437	5.6	3.0E-86	AI859240.1	EST_HUMAN	u11802.x1 NCI CGAP P228 Homo sapiens cDNA clone IMAGE:2251371 3'
11842	24725	38312	1.85	3.0E-86	AV860489.1	EST_HUMAN	AV860489 G86 Homo sapiens cDNA clone GKCSSE02.5
12265	25782	38312	1.35	3.0E-86	AV860489.1	EST_HUMAN	AV860489 G86 Homo sapiens cDNA clone IMAGE:3636753 5'
286	13362	26286	1.63	2.0E-86	BE410354.1	EST_HUMAN	EST1177232 Jurkat T-cells VI Homo sapiens cDNA 5' and
414	13487	27186	2.72	2.0E-86	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
1194	14234	27186	2.68	2.0E-86	N58977.1	EST_HUMAN	Yct19a08.1 Soares multiple sclerosis 21HMSIP Homo sapiens cDNA clone IMAGE:283478 5'
2201	15216	28236	2.54	2.0E-86	9635487	NT	Human endogenous retrovirus, complete genome
2277	15260	28315	1.14	2.0E-86	AB033103.1	NT	Human endogenous retrovirus, complete genome
3428	16474	28393	1.47	2.0E-86	AW968142.1	EST_HUMAN	Homo sapiens mRNA for KIAA1277 protein, partial cds
							EST1378215 IMAGE:283478 5'

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3759	16800	26711	2.55	2.0E-86	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
3760	16800	26712	2.55	2.0E-86	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
4070	17106		3.01	2.0E-86	AF515742.1	EST_HUMAN	hdb7g08.x1 NCI_CGAP_G028 Homo sapiens cDNA clone IMAGE:2816542 3'
4828	17845	30745	3.3	2.0E-86	AF056490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
5672	10057	32267	1.53	2.0E-86	Z18411.1	NT	H. sapiens mRNA encoding phospholipase c
5672	10057	32258	1.53	2.0E-86	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
7277	25672	33314	0.81	2.0E-86		NT	Homo sapiens similar to actinonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214), mRNA
8343	21312	34726	0.77	2.0E-86	U94744.1	NT	Human Chadiak-Higachi syndrome protein short isoform (LYST) mRNA, complete cds
8881	21826		0.53	2.0E-86	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
8820	21866	35312	2.44	2.0E-86		NT	Homo sapiens butyrobetaine (gamme), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) (BBOX), mRNA
8820	21880	35313	2.44	2.0E-86		NT	Homo sapiens butyrobetaine (gamme), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) (BBOX), mRNA
9264	22220	35651	1.46	2.0E-86	10863876	NT	Homo sapiens phospholipid scramblase 1 (PLSGRT), mRNA
9673	22626	36080	2.12	2.0E-86	11422084	NT	Homo sapiens chromosome segregation 1 (yeast homolog-like) (GSE1L), mRNA
10514	23735	37237	2.88	2.0E-86		NT	Homo sapiens basic-helix-loop-helix-PAS protein (NPAS3), mRNA
10514	23735	37238	2.88	2.0E-86	11545848	NT	Homo sapiens basic-helix-loop-helix-PAS protein (NPAS3), mRNA
10514	23735	37239	1.63	2.0E-86	AB037832.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
10589	23769	37289	1.63	2.0E-86	AB037832.1	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (GZP1), mRNA
12732	25385	31750	2.82	2.0E-86	11418189	NT	Homo sapiens gene for AFG, complete cds
12001	25465		6.37	2.0E-86	AB011369.1	NT	Homo sapiens NADH dehydrogenase (ubiquinone) Fe-S protein 1 (75kD) (NADH-coenzyme Q reductase) (NDUFS1) mRNA
1601	14633	27609	1.28	1.0E-86	48263555	NT	Homo sapiens fibulin 5 (FBLN5) mRNA
3176	16231	29147	1.52	1.0E-86	5453649	NT	Human gamma-glutamyl transpeptidase mRNA, complete cds
3249	16304	29228	2.61	1.0E-86	L20492.1	NT	Homo sapiens chromosome 21 segment HS21C009
3307	16360	29276	2.18	1.0E-86	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
3307	16360	29280	2.18	1.0E-86	AL163209.2	NT	Homo sapiens hypothetical protein (LOC51318), mRNA
3307	16360	29281	1.01	1.0E-86	7706161	NT	Homo sapiens hypothetical protein (LOC51318), mRNA
3968	17006	29622	1.01	1.0E-86	7706161	NT	Homo sapiens chromosome 21 segment HS21C100
3968	17006	29622	1.01	1.0E-86	AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
4293	17322	30202	5.66	1.0E-86	AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C084
4651	17672	30559	1.12	1.0E-86	4507334	NT	Homo sapiens syngapin 1 (SYNJ1), mRNA
5632	18728	31888	1.44	1.0E-86	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
5430	18533		1.78	9.0E-87	AI150703.1	EST_HUMAN	gb77c09.x1 Soares fetal heart, NIH119W Homo sapiens cDNA clone IMAGE:1705128 3' similar to SW-6101 MOUSE P23535 KERATIN, TYPE I CYTOSKELETAL 10;

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top Hit) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7681	20639	34001	1.73	9.0E-87	4757721	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
7681	20639	34002	1.73	9.0E-87	4757721	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
480	13552	26480	82.98	8.0E-87	X62245.1	NT	O cuticular mRNA for elongation factor 1 alpha
2304	15316	28336	3.11	7.0E-87	BF063211.1	EST_HUMAN	718562.1 NC1 CGAP_Co16 Homo sapiens cDNA clone IMAGE:3322779 3'
2304	15316	28337	3.11	7.0E-87	BF063211.1	EST_HUMAN	718562.1 NC1 CGAP_Co16 Homo sapiens cDNA clone IMAGE:3322779 3'
6540	19802	32684	1.01	7.0E-87	AW890336.1	EST_HUMAN	MRQ-NT0039-020500-004-at1 NT0039 Homo sapiens cDNA
8831	21489	34615	2.59	7.0E-87	BF352776.1	EST_HUMAN	IL3-HT10702-160600-105-d06 HT10702 Homo sapiens cDNA
9809	21132	34535	0.66	7.0E-87	BE712661.1	EST_HUMAN	DKFZp434N0323_11 434 (synonym: hta33) Homo sapiens cDNA clone DKFZp434N0323 5'
10431	23553	36837	3.41	7.0E-87	AL043314.2	EST_HUMAN	DKFZp434N0323_11 434 (synonym: hta33) Homo sapiens cDNA clone DKFZp434N0323 5'
10431	23553	36838	3.41	7.0E-87	AL043314.2	EST_HUMAN	DKFZp434N0323_11 434 (synonym: hta33) Homo sapiens cDNA clone DKFZp434N0323 5'
11237	24190	37708	10.09	7.0E-87	K03902.1	NT	Human mRNA from chromosome 15 gene with homology to MHC-HLA-B*1 Intron A
11237	24190	37709	10.09	7.0E-87	K03902.1	NT	Human mRNA from chromosome 15 gene with homology to MHC-HLA-B*1 Intron A
3538	16584	29507	0.76	8.0E-87	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
6561	19621	32866	1.84	6.0E-87	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
11079	24041		6.13	6.0E-87	11432444	NT	Homo sapiens similar to SET translocation (myeloid leukemia-associated) (H. sapiens) (LOC63102), mRNA
1162	14204	27157	1.96	5.0E-87	AA382811.1	EST_HUMAN	EST186094 Testis 1 Homo sapiens cDNA 5' end
12585	14204	27157	2	5.0E-87	AA382811.1	EST_HUMAN	EST186094 Testis 1 Homo sapiens cDNA 5' end
967	14019	29672	0.98	4.0E-87	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1176	14217	27172	15.32	4.0E-87	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
2045	15064	29084	1.49	4.0E-87	AB007625.1	NT	Homo sapiens mRNA for KIAA0456 protein, partial cds
3478	16524	29448	1.57	4.0E-87	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLL14) mRNA
5307	18310	31167	0.99	4.0E-87	4759073	NT	Homo sapiens small inducible cytokine subfamily A (Cys-Cys), member 16 (SCYA16) mRNA
5307	18310	31169	0.99	4.0E-87	4759073	NT	Homo sapiens small inducible cytokine subfamily A (Cys-Cys), member 16 (SCYA16) mRNA
5521	18620	31554	5.85	4.0E-87	O00321	SWISSPROT	ETS-RELATED PROTEIN 71 (ETS TRANSLLOCATION VARIANT 2)
5844	18394	32118	0.55	4.0E-87	U85429.1	NT	Human transcription factor NFATX3 mRNA, complete cds
6163	19238	32460	4.54	4.0E-87	BE247284.1	EST_HUMAN	TCBAP1E4051 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project TCBA Homo sapiens cDNA clone TCBAP4051
7933	20875	34264	0.5	4.0E-87	11425281	NT	Homo sapiens KIAA1072 protein (KIAA1072), mRNA
7933	20875	34265	0.5	4.0E-87	11425281	NT	Homo sapiens KIAA1072 protein (KIAA1072), mRNA
8050	20987	34393	0.61	4.0E-87	L48524.1	NT	Homo sapiens tuberin (TSC2) gene, exon 10
9583	22545	35996	0.47	4.0E-87	AF223470.1	NT	Homo sapiens KIAA0971.1 protein (KIAA0971.1) mRNA, complete cds

Single Exon Probes Expressed In Bone Marrow

[illegible]

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9260	22226	35655	0.97	1.0E-87	AB022918.1	NT	Homo sapiens mRNA for alpha2,3-sialyltransferase ST3Gal VI, complete cds
9260	22226	35656	0.97	1.0E-87	AB022918.1	NT	Homo sapiens mRNA for alpha2,3-sialyltransferase ST3Gal VI, complete cds
9991	22918	36394	6.68	1.0E-87	BE618183.1	EST_HUMAN	RC3-BN0276-050700-012-E02 BN0276 Homo sapiens cDNA
8891	22918	36395	6.68	1.0E-87	BE618183.1	EST_HUMAN	RC3-BN0276-050700-012-E02 BN0276 Homo sapiens cDNA
10739	20681	37155	3.11	1.0E-87	M44426.1	NT	Human L-plastin mRNA, 5' end
11084	24945	37597	1.78	1.0E-87	5729867	NT	Homo sapiens hect domain and RLD 2 (HERC2), mRNA
12875	25978		1.48	1.0E-87	7657632	NT	Homo sapiens sulfotransferase-related protein (SULT3), mRNA
1108	14152	27102	6.48	9.0E-88	AF187465.1	NT	Homo sapiens double stranded RNA activated protein kinase (PKR) gene, exon 12
1351	14398	27355	2.59	9.0E-88	AB037820.1	NT	Homo sapiens mRNA for KIAA1395 protein, partial cds
1351	14398	27356	2.59	9.0E-88	AB037820.1	NT	Homo sapiens mRNA for KIAA1395 protein, partial cds
2130	15147	28162	1.14	9.0E-88	7681701	NT	Homo sapiens DKFZP586P1822 protein (DKFZP586P1822), mRNA
3642	16685	29601	0.99	9.0E-88	AL163205.2	NT	Homo sapiens chromosome 21 segment HS21C008
4298	17327	30207	3.27	9.0E-88	X91929.1	NT	H. sapiens ECE-1 gene (exon 9)
4298	17327	30208	3.27	9.0E-88	X91929.1	NT	H. sapiens ECE-1 gene (exon 9)
5038	18051	30931	1	9.0E-88	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
9375	22340	35771	3.69	6.0E-88	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
1845	14871		1.13	5.0E-88	7681887	NT	Homo sapiens KIAA0065 gene product (KIAA0065), mRNA
2947	15844	28689	5.45	5.0E-88	N83399.1	EST_HUMAN	K9719F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone K9719 5' similar to ZINC FINGER PROTEIN HZF1
3013	18071	28691	0.91	5.0E-88	AF114488.1	NT	Homo sapiens interaectin short isoform (ITSN) mRNA, complete cds
3023	19080	29002	0.77	5.0E-88	AF114488.1	NT	Homo sapiens interaectin short isoform (ITSN) mRNA, complete cds
3023	19080	29003	0.77	5.0E-88	AF114488.1	NT	Homo sapiens interaectin short isoform (ITSN) mRNA, complete cds
3400	18449		2.75	5.0E-88	AI63217.1	EST_HUMAN	wd810B.X1 NCI CGAP Lu24 Homo sapiens cDNA clone IMAGE:2336799 3' similar to contains Alu repetitive element/contains element MER22 MER22 repetitive element 1
6936	20160	35461	3.32	5.0E-88	FI106321.1	EST_HUMAN	YMO810.11 Scores infant brain N1B Homo sapiens cDNA clone IMAGE:47128 5'
8261	21230	34639	2.44	5.0E-88	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
9666	22519	39070	0.57	5.0E-88	BF690206.1	EST_HUMAN	602154955F1 NIH_MGC 83 Homo sapiens cDNA clone IMAGE:4295775 5'
12435	14871		1.73	5.0E-88	7681887	NT	Homo sapiens KIAA0065 gene product (KIAA0065), mRNA
1332	14387	27336	1.49	4.0E-88	BF091229.1	EST_HUMAN	PM1-1N0028-050900-004-F10 TN0028 Homo sapiens cDNA
1332	14387	27337	1.49	4.0E-88	BF091229.1	EST_HUMAN	PM1-1N0028-050900-004-F10 TN0028 Homo sapiens cDNA
5185	18194	31089	0.81	4.0E-88	BF070714.1	EST_HUMAN	602149762F1 NIH_MGC 81 Homo sapiens cDNA clone IMAGE:4290375 5'
7454	20420	33775	1.35	4.0E-88	11416585	NT	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFB1), mRNA

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11818	24701	38282	3.12	4.0E-88	7661947	NT	Homo sapiens KIAA0152 gene product (KIA0152), mRNA
11818	24701	38283	3.12	4.0E-88	7661947	NT	Homo sapiens KIAA0152 gene product (KIA0152), mRNA
733	13784	26731	0.85	3.0E-88	11545800	NT	Homo sapiens hypothetical protein FL21634 (FL21634), mRNA
1826	14856		1.78	3.0E-88	4508020	NT	Homo sapiens zinc finger protein 258 (ZNF258) mRNA
2858	16016	28844	2.51	3.0E-88	N63951.1	EST_HUMAN	z44812.21 Scores fetal liver spleen (NLS) Homo sapiens cDNA clone IMAGE:288823 3'
4269	17298	30175	0.93	3.0E-88	4501912	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
4269	17298	30176	0.93	3.0E-88	4501912	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
4804	17529		3.84	3.0E-88	11429300	NT	Homo sapiens hypothetical protein (VCP), mRNA
5372	18477	31350	2.45	3.0E-88	11429307	NT	Homo sapiens polycythemia rubra vera 1, cell surface receptor (PRV1), mRNA
5666	18761	32063	4.05	3.0E-88	9668888	NT	Homo sapiens v-rat simian leukemia viral oncogene homolog A (ras related) (RALA), mRNA
5786	18881	32063	3.62	3.0E-88	11420697	NT	Homo sapiens interleukin 13 (IL13), mRNA
6265	19357	32593	0.95	3.0E-88	11417370	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
6553	25662	32877	0.77	3.0E-88	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
6553	25662	32878	0.77	3.0E-88	11419210	NT	Homo sapiens putative anion transporter 1 mRNA, complete cds
7267	20002	33302	15.04	3.0E-88	AF279265.1	NT	Homo sapiens retinoblastoma-binding protein 2 (RBBP2), mRNA
7768	20741	34114	6.35	3.0E-88	11436400	NT	Homo sapiens growth differentiation factor 5 (cartilage-derived morphogenetic protein-1) (GD5), mRNA
8253	21222	34652	10.99	3.0E-88	11421726	NT	Homo sapiens myxodermum cofactor biosynthesis protein A and myxodermum cofactor biosynthesis protein C mRNA, complete cds
8536	21506	34923	1.28	3.0E-88	AF034374.1	NT	Homo sapiens v-rat simian erythroid leukemia virus E28 oncogene related (ERG), mRNA
9789	21112	34512	2.14	3.0E-88	11526262	NT	Homo sapiens mRNA for RALDH2-T, complete cds
10286	23213	36696	0.74	3.0E-88	AB015226.1	NT	Homo sapiens mRNA for RALDH2-T, complete cds
10286	23213	36697	0.74	3.0E-88	AB015226.1	NT	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA
10316	23240	36721	0.99	3.0E-88	11439065	NT	Homo sapiens cullin (intracellular factor-cofactor receptor) (CUBN) mRNA
12086	24658	38554	3.65	3.0E-88	4557502	NT	Homo sapiens transferrin-binding protein, EF hand transcription factor (CSENF), mRNA
12421	25181		7.12	3.0E-88	11417974	NT	Homo sapiens SNARE protein kinase SNAX mRNA, complete cds
1037	14093	27053	61.67	2.0E-88	7305198	NT	Homo sapiens SNARE protein kinase SNAX mRNA, complete cds
1628	14661	27637	1.68	2.0E-88	AF248219.1	NT	Homo sapiens dyx11c1, axonemal, light polypeptide 4 (DNL4), mRNA
1765	14764	27779	4.07	2.0E-88	AF248219.1	NT	U1-H1-aaa-04-04-Q1.1 NCI CGAP Sub3 Homo sapiens cDNA clone IMAGE:2718750 3'
4455	17481	30359	1.96	2.0E-88	5031066	NT	U1-H1-aaa-04-04-Q1.1 NCI CGAP Sub3 Homo sapiens cDNA clone IMAGE:2718750 3'
6016	19069	32300	5.17	1.0E-88	AW139565.1	EST_HUMAN	Homo sapiens KIAA0417 mRNA, complete cds
6016	19069	32301	5.17	1.0E-88	AW139565.1	EST_HUMAN	Homo sapiens KIAA0417 mRNA, complete cds
6802	19856	33141	23.82	1.0E-88	AB007877.1	NT	Homo sapiens KIAA0417 mRNA, complete cds
6802	19856	33142	23.82	1.0E-88	AB007877.1	NT	Homo sapiens KIAA0417 mRNA, complete cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7329	20300	33644	1.29	1.0E-88	AI090034.1	EST_HUMAN	wg/Oat12.T NCL_CGAP_G08 Homo sapiens cDNA clone IMAGE:2476606 3'
							aa5441.1 NCL_CGAP_G081 Homo sapiens cDNA clone IMAGE:824732 3' similar to WP:80272.2
7390	20359	33711	3.91	1.0E-88	AA488981.1	EST_HUMAN	CE00851;
8476	21445	34862	0.47	1.0E-88	AF135183.1	NT	Homo sapiens Rec1 helicase 5 (REC5) gene, alternative splice products, complete cds
9597	22601	36050	1.09	1.0E-88	AA190368.1	EST_HUMAN	zp8702.1 Stragene Hela cell c3 937216 Homo sapiens cDNA clone IMAGE:827170 5' similar to SW_P01.1 HUMAN P10286 RETROVIRUS-RELATED POLYPROTEIN
9538	22855	36327	2.73	1.0E-88	AL043314.2	EST_HUMAN	DKFZp434N0323.1 434 (synonym: h1a3) Homo sapiens cDNA clone DKFZp434N0323 5'
							cs971g03.1 NCL_CGAP_G03 Homo sapiens cDNA clone IMAGE:1612756 3' similar to gb:M16342
11773	23928	37449	3.86	1.0E-88	AA991479.1	EST_HUMAN	HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEINS C1/C2 (HUMAN);
12640	25324		1.91	1.0E-88	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
11298	24248	37774	3.96	9.0E-89	11421238	NT	Homo sapiens transglutinin 2 (TAGLN2), mRNA
2745	15738	28755	1.74	8.0E-89	BE311557.1	EST_HUMAN	601142409F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506186 5'
							Homo sapiens similar to some domain immunoglobulin domain (Ig), short basic domain, secreted, (serpiniform) 3A (H_sapiens) (L0082222), mRNA
7118	20052	33356	1.21	8.0E-89	11421514	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
433	13507	26440	1.21	7.0E-89	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
433	13507	26441	1.21	7.0E-89	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
4819	17835	30828	2.95	7.0E-89	4557390	NT	Homo sapiens complement component 8, beta polypeptide (C8B) mRNA
4967	17982	30872	4.02	7.0E-89	AL045748.1	EST_HUMAN	DKFZp434E246.1 434 (synonym: h1a3) Homo sapiens cDNA clone DKFZp434E246 5'
5505	18605	31534	1.22	7.0E-89	X98832.1	NT	H_sapiens CLN3 gene, complete CDS
5505	18605	31535	1.22	7.0E-89	X98832.1	NT	H_sapiens CLN3 gene, complete CDS
6477	19542	32789	0.77	7.0E-89	7549808	NT	Homo sapiens plasmin 3 (T isoform) (PLS3), mRNA
6477	19542	32790	0.77	7.0E-89	7549808	NT	Homo sapiens plasmin 3 (T isoform) (PLS3), mRNA
7741	20695	34060	1.42	7.0E-89	11420754	NT	Homo sapiens actin related protein 2/3 complex, subunit 1A (41 kD) (ARPC1A), mRNA
8211	21180	34586	0.57	7.0E-89	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
8211	21180	34590	0.57	7.0E-89	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
8923	21760	35212	3.88	7.0E-89	U02923.1	NT	Human 65 kilodalton phosphoprotein (p65) mRNA, complete cds
10897	23817	37324	1.25	7.0E-89	X62048.1	NT	H_sapiens Wee1 hu gene
10897	23817	37325	1.25	7.0E-89	X62048.1	NT	H_sapiens Wee1 hu gene
10973	23833	37347	1.11	7.0E-89	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
10973	23833	37349	1.11	7.0E-89	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
10973	23833	37349	1.11	7.0E-89	5903114	NT	Homo sapiens inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA
1025	14071	27022	1.23	6.0E-89	4506124	NT	Homo sapiens serine/threonine-protein kinase PRP4 homolog (PRP4) mRNA
2223	15237	28261	1.17	6.0E-89	4506124	NT	Homo sapiens serine/threonine-protein kinase PRP4 homolog (PRP4) mRNA
2440	15447	28464	0.99	6.0E-89	4507788	NT	Homo sapiens ubiquitin-conjugating enzyme E2L 3 (UBE2L3) mRNA
2440	15447	28465	0.99	6.0E-89	4507788	NT	Homo sapiens ubiquitin-conjugating enzyme E2L 3 (UBE2L3) mRNA

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4887	17688	30573	4.04	6.0E-89	AB007868.2	NT	Homo sapiens mRNA for KIAA0408 protein, partial cds
4887	17688	30574	4.04	6.0E-89	AB007868.2	NT	Homo sapiens mRNA for KIAA0409 protein, partial cds
5111	18121	30695	3.41	5.0E-88	BE244323.1	EST_HUMAN	TCBP2E0383 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HQSC project/TCBA Homo sapiens cDNA clone TC8AP0383
5111	18121	30696	3.41	5.0E-89	BE244323.1	EST_HUMAN	TCBP2E0383 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HQSC project/TCBA Homo sapiens cDNA clone TC8AP0383
7842	20789	34164	0.84	4.0E-89	BE782749.1	EST_HUMAN	QV5-NT0022-080900-219-503 NT0022 Homo sapiens cDNA
2888	15947	28983	1.1	3.0E-89	AW976181.1	EST_HUMAN	EST388200 MAGE resources, MAGN Homo sapiens cDNA
7347	20317	33663	1.25	3.0E-89	AI217356.1	EST_HUMAN	qht17606.x1 Soares_NFL_T_GBC ST Homo sapiens cDNA clone IMAGE:1844615 3'
11151	24111	37536	1.78	3.0E-89	N57357.1	EST_HUMAN	w86e11.r1 Soares_placenta_80cweeks_2Nb-HP8c8W Homo sapiens cDNA clone IMAGE:259148 5' similar to SW-PI4K_HUMAN P42356 PHOSPHATIDYLINOSITOL 4-KINASE ALPHA :
127	13481	28418	0.98	2.0E-88	7706870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
127	13481	28417	0.98	2.0E-88	7706870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
408	13481	28416	0.94	2.0E-89	7706870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
408	13481	28417	0.84	2.0E-89	7706870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
531	13602	28520	0.93	2.0E-89	AB037763.1	NT	Homo sapiens mRNA for KIAA1342 protein, partial cds
2892	15951	28987	1.71	2.0E-88	AI222095.1	EST_HUMAN	qg8608.x1 Soares_NFL_T_GBC ST Homo sapiens cDNA clone IMAGE:1843022 3' similar to gp.D04131 GAMMA-GLUTAMYL TRANSPEPTIDASE 1 PRECURSOR (HUMAN) contains Alu repetitive element;
3565	16811	28532	0.85	2.0E-88	AA759149.1	EST_HUMAN	ah70603.s1 Soares_testis_NHT Homo sapiens cDNA clone 1320888 3'
3565	16811	28533	0.85	2.0E-89	AA759149.1	EST_HUMAN	ah70603.s1 Soares_testis_NHT Homo sapiens cDNA clone 1320888 3'
4169	17200	30088	1.41	2.0E-88	AF088897.1	NT	Homo sapiens topoisomerase-related function protein (TRF4-2) mRNA, partial cds
4180	17211	30098	4.98	2.0E-88	X58742.1	NT	H.sapiens HCK gene for tyrosine kinase (PTK), exon 10-11
4180	17211	30098	4.98	2.0E-88	X58742.1	NT	H.sapiens HCK gene for tyrosine kinase (PTK), exons 10-11
4376	17404	30284	0.83	2.0E-89	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
4524	17489	30437	1.1	2.0E-89	AI007378.1	NT	Homo sapiens GGT1 gene, exon 5
5416	18519	31600	1.39	2.0E-88	BE541744.1	EST_HUMAN	60705569FT NIH_MGC 10 Homo sapiens cDNA clone IMAGE:3452423 5'
5558	18855	31600	2.77	2.0E-89	AB007546.1	NT	Homo sapiens gene for LECT2, complete cds
5888	18975	32167	1.89	2.0E-88	U03985.1	NT	Human N-ethylmaleimide-sensitive factor mRNA, partial cds
6335	19404	32644	0.87	2.0E-89	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
7931	20874	34283	4.07	2.0E-88	U81004.1	NT	Human G124 (G124) mRNA, partial cds
8266	21235	34846	2.9	2.0E-89	11428801	NT	Homo sapiens solute carrier family 24 (sodium/potassium/calcium exchanger), member 2 (SLC24A2), mRNA

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8760	21727	35149	0.94	2.0E-89	AJ245503.1	NT	Homo sapiens partial mRNA for PEX5 related protein
8608	22612	36065	0.67	2.0E-89	AB037754.1	NT	Homo sapiens mRNA for KIAA1333 protein, partial cds
10169	23064	36572	1.11	2.0E-89	AF170814.1	NT	Homo sapiens CABP5 (CABP5) gene, exon 5
10169	23064	36573	1.11	2.0E-89	AF170814.1	NT	Homo sapiens CABP5 (CABP5) gene, exon 5
11701	24666	36243	2.63	2.0E-89	11434411	NT	Homo sapiens integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor) (ITGA3), mRNA
11896	24777	36363	3.64	2.0E-89	11433673	NT	Homo sapiens cell adhesion molecule with homology to L1CAM (close homologue of L1) (CHL1), mRNA
12026	24902	36497	1.63	2.0E-89	U10582.1	NT	Human IMAGE-7 antigen (IMAGE7) pseudogene, complete cds
11903	24784	36372	5.65	1.0E-89	BF196052.1	EST_HUMAN	h87d09.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134867 3' similar to TR:O54778 O54778
11903	24784	36373	5.65	1.0E-89	BF196052.1	EST_HUMAN	SOLUTE CARRIER FAMILY 22 -LIKE 2 PROTEIN;
8569	21537	34957	1.77	9.0E-90	AL163246.2	NT	h87d09.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134867 3' similar to TR:O54778 O54778
8569	21537	34958	1.77	9.0E-90	AL163246.2	NT	SOLUTE CARRIER FAMILY 22 -LIKE 2 PROTEIN;
1054	14110	27060	1.83	8.0E-90	AL163246.2	NT	SOLUTE CARRIER FAMILY 22 -LIKE 2 PROTEIN;
1065	14110	27059	2.43	8.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
1333	15864	27338	4.85	8.0E-90	BE670561.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
1333	15864	27339	4.85	8.0E-90	BE670561.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
8908	21672	35298	0.78	8.0E-90	BE177890.1	EST_HUMAN	743803.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284563 3'
11374	24321	37648	1.68	8.0E-90	AA705222.1	EST_HUMAN	RC1-HT0588-120403-022-b08 HT0588 Homo sapiens cDNA
11374	24321	37649	1.68	8.0E-90	AA705222.1	EST_HUMAN	282g10.s1 Soares_fetal_liver_spleen.1:INFLS_S1 Homo sapiens cDNA clone IMAGE:461442 3'
							282g10.s1 Soares_fetal_liver_spleen.1:INFLS_S1 Homo sapiens cDNA clone IMAGE:461442 3'
							Homo sapiens calcium channel alpha1E1 subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
837	13694		3.74	7.0E-90	AF223391.1	NT	
8767	21734		2.07	7.0E-90	AA782977.1	EST_HUMAN	a65d408.s1 Soares_testis_NHT Homo sapiens cDNA clone 1375503 3'
9317	22282	35712	1.82	7.0E-90	BE062525.2	EST_HUMAN	607655837R1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3855824 3'
9317	22282	35713	1.82	7.0E-90	BE062525.2	EST_HUMAN	607655837R1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3855824 3'
							Y86e04.s1 Soares_fetal_liver_spleen.INFLS_S1 Homo sapiens cDNA clone IMAGE:212190 3' similar to
							SP-CITC_HUMAN P11586 C-1-TETRAHYDROFOLATE SYNTHASE, CYTOPLASMIC;
10465	23417	36915	2.08	7.0E-90	H68849.1	EST_HUMAN	Y86e04.s1 Soares_fetal_liver_spleen.INFLS_S1 Homo sapiens cDNA clone IMAGE:212190 3' similar to
10495	23417	36916	2.08	7.0E-90	H68849.1	EST_HUMAN	SP-CITC_HUMAN P11586 C-1-TETRAHYDROFOLATE SYNTHASE, CYTOPLASMIC;
10821	23742	37243	0.98	7.0E-90	BF526088.1	EST_HUMAN	902071208FT NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4214257 5'
3031	16138	29049	0.98	6.0E-90	XG1926.1	NT	H. sapiens ECE-1 gene (exon 6)
3031	16138	28050	0.98	6.0E-90	XG1926.1	NT	H. sapiens ECE-1 gene (exon 6)

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit: Accession No.	Top Hit Database Source	Top Hit: Descriptor
4254	17283	30164	9.77	6.0E-90	8922398	NT	Homo sapiens hypothetical protein FLJ10388 (FLJ10388), mRNA
4254	17283	30166	9.77	6.0E-90	8922398	NT	Homo sapiens hypothetical protein FLJ10388 (FLJ10388), mRNA
6097	18176	32393	3.07	6.0E-90	U77700.1	NT	Homo sapiens HECGX1 mRNA, partial cds
6097	18176	32394	3.07	6.0E-90	U77700.1	NT	Homo sapiens HECGX1 mRNA, partial cds
6670	21638	35061	3.16	6.0E-90	4504784	NT	Homo sapiens insulin 1,4,5-triphosphate receptor, type 3 (ITPR3) mRNA
6670	21638	35062	3.16	6.0E-90	4504784	NT	Homo sapiens insulin 1,4,5-triphosphate receptor, type 3 (ITPR3) mRNA
156	13259	27192	25.61	5.0E-90	AB035344.1	NT	Homo sapiens TGL6 gene, exon 1-10b
1187	14237	27192	1.84	5.0E-90	U80226.1	NT	Human gamma-aminobutyric acid transaminase mRNA, partial cds
1836	14863	27890	1.33	5.0E-90	A122095.1	EST_HUMAN	q996c08.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131 GAMMA-GLUTAMYLTRANSFERASE 1 PRECURSOR (HUMAN);contains Alu repetitive element
1838	14863	27861	1.33	5.0E-90	A122095.1	EST_HUMAN	q996c08.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131 GAMMA-GLUTAMYLTRANSFERASE 1 PRECURSOR (HUMAN);contains Alu repetitive element
2562	15563	28582	2.8	5.0E-90	AF114487.1	NT	Homo sapiens intersectin long isoform (ITSN) mRNA, complete cds
4571	17593	30487	1.32	5.0E-90	4506354	NT	Homo sapiens pregnancy-zone protein (PZP) mRNA
4593	17814	30508	0.7	5.0E-90	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
5872	18767	31838	2.86	5.0E-90	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
5890	18786	32052	0.61	5.0E-90	AF008915.1	NT	Homo sapiens EV16 homolog mRNA, complete cds
5777	18969	32052	1.34	5.0E-90	AB015617.1	NT	Homo sapiens ELKS mRNA, complete cds
5860	18767	31838	2.22	5.0E-90	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
6884	18946	33242	0.73	5.0E-90	9910365	NT	Homo sapiens mRNA encoding phospholipase c
6884	18946	33243	0.73	5.0E-90	9910365	NT	Homo sapiens mRNA encoding phospholipase c
7423	20360	33741	2.09	5.0E-90	AF113708.1	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC568934), mRNA
7423	20360	33742	2.09	5.0E-90	AF113708.1	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC568934), mRNA
7813	20762	34138	8.82	5.0E-90	4557258	NT	Homo sapiens angiotensinogen 4 (ANG4) mRNA, partial cds
8836	21604	35026	4.98	5.0E-90	11345483	NT	Homo sapiens angiotensinogen 4 (ANG4) mRNA, partial cds
10039	22968	36433	1.13	5.0E-90	11419428	NT	Homo sapiens adenylyl cyclase 9 (ADCY9) mRNA
10844	23066	37063	0.74	5.0E-90	AF123303.1	NT	Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214), mRNA
10777	23698	37186	0.83	5.0E-90	11417118	NT	Homo sapiens calcium-binding transporter mRNA, partial cds
10777	23698	37197	0.83	5.0E-90	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
10813	23734	37236	5.86	5.0E-90	11433721	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
10813	23734	37236	5.86	5.0E-90	11433721	NT	Homo sapiens ATPase, aminophospholipid transporter-like, Class I, type 8A, member 2 (ATP8A2), mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10871	23791	37291	0.67	5.0E-90	7662051	NT	Homo sapiens KIAA0317 gene product (KIAA0317), mRNA
10872	23791	37292	0.67	5.0E-90	7662051	NT	Homo sapiens KIAA0317 gene product (KIAA0317), mRNA
12871	25066		2.89	5.0E-90	AB011396.1	NT	Homo sapiens gene for A-F, complete cds
12820	25066		4.68	5.0E-90	AF523968.1	EST_HUMAN	af78h05.x1 Barcode data HPLRB8 Homo sapiens cDNA clone IMAGE:2126761 3'
302	13396	26323	2.82	4.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
302	13396	26324	2.82	4.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
1088	14132	27084	4.74	4.0E-90	4505316	NT	Homo sapiens myosin phosphatase, target subunit 1 (MYPT1), mRNA
1688	14728	27711	8.94	4.0E-90	X68033.1	NT	H1 sapiens gene encoding discoidin receptor tyrosine kinase, exon 16
4888	17707	30600	6.15	4.0E-90	D87075.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4835	17852	30761	2.4	4.0E-90	AB033070.1	NT	Homo sapiens mRNA for KIAA1244 protein, partial cds
4859	17873	30761	1.96	4.0E-90	M95967.1	NT	Human prothrombin converting enzyme (NEC2) gene, exon 8
12134	25003	36810	1.75	4.0E-90	D31124.1	EST_HUMAN	HUML12562 Human fetal lung Homo sapiens cDNA 5'
8185	21155	34563	1.72	3.0E-90	BF516168.1	EST_HUMAN	UIH-BW1-amy-04-04-01.s1 NCL CGAP Sub7 Homo sapiens cDNA clone IMAGE:3083839 3'
8185	21155	34564	1.72	3.0E-90	BF516168.1	EST_HUMAN	UIH-BW1-amy-04-04-01.s1 NCL CGAP Sub7 Homo sapiens cDNA clone IMAGE:3083839 3'
11951	24830	38426	67.56	3.0E-90	BE569833.1	EST_HUMAN	601335244F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3689147 5'
215	13315	28243	5.41	2.0E-90	BE537913.1	EST_HUMAN	601087378F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3403834 5'
1177	14218	27173	46.4	2.0E-90	5031748	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
1177	14218	27174	46.4	2.0E-90	5031748	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
3859	16898	29801	2.03	2.0E-90	AI193213.1	EST_HUMAN	qc54402.x1 Scavina_pleanta, glycolytic, 2N6HPB29W Homo sapiens cDNA clone IMAGE:1713410 3'
4714	17734	30627	1.17	2.0E-90	AB006627.1	NT	similar to SW-OLFP3_MOUSE P23275 OLFACTORY RECEPTOR OR3...
4947	17963	30653	9.23	2.0E-90	6729855	NT	Homo sapiens mRNA for KIAA0289 gene, partial cds
5870	18959	32147	0.57	2.0E-90	11525901	NT	Homo sapiens GRB2-related adaptor protein (GRAP) mRNA
5870	18959	32148	0.57	2.0E-90	11525901	NT	Homo sapiens Raf2 interacting protein 8 (RIP2), mRNA
5870	18959	32148	0.57	2.0E-90	11525901	NT	Homo sapiens Raf2 interacting protein 8 (RIP2), mRNA
5879	18968	32159	4.7	2.0E-90	AW672686.1	EST_HUMAN	be48005.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2869881 5' similar to TR:076208 075208 HYPOTHETICAL 35.5 KD PROTEIN
10149	23075	36550	8.23	2.0E-90	11427320	NT	Homo sapiens similar to laminin receptor 1 (67KD, ribosomal protein SA) (H. sapiens) (LOC63484), mRNA
10149	23075	36551	8.23	2.0E-90	11427320	NT	Homo sapiens similar to laminin receptor 1 (67KD, ribosomal protein SA) (H. sapiens) (LOC63484), mRNA
10319	23243	36722	1.27	2.0E-90	AU118885.1	EST_HUMAN	AU118885 HEMBA1 Homo sapiens cDNA clone HEMBA1004795 5'
10319	23243	36723	1.27	2.0E-90	AU118885.1	EST_HUMAN	AU118885 HEMBA1 Homo sapiens cDNA clone HEMBA1004795 5'
11788	23653	37475	5.5	2.0E-90	11024711	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA

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276	13372	26300	3.99	1.0E-90	4502166	NT	Homo sapiens amyloid beta (A β) precursor protein (protease noah-h1, Alzheimer disease)(APP), mRNA
374	15812	26389	1.73	1.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
375	15812	26389	2.04	1.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
608	13758	26683	2.55	1.0E-90	AF237589.1	NT	Homo sapiens mRNA for T-box transcription factor (TBX20 gene), partial
609	13758	26680	2.65	1.0E-90	AF237589.1	NT	Homo sapiens mRNA for T-box transcription factor (TBX20 gene), partial
731	13762	26728	17.02	1.0E-90	AF264750.1	NT	Homo sapiens ALP-like protein mRNA, partial cds
731	13762	26729	17.02	1.0E-90	AF264750.1	NT	Homo sapiens ALP-like protein mRNA, partial cds
1112	14156	27310	2.23	1.0E-90	4507828	NT	Homo sapiens Kruppel-like factor 7 (ubiquitous) (KLIF7), mRNA
1309	14345	27310	2.99	1.0E-90	AF098154.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 3
1309	14345	27311	2.99	1.0E-90	AF098154.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 3
1676	14708	27938	1.78	1.0E-90	BE378884.1	EST_HUMAN	601159569F2 NIH JGCG 53 Homo sapiens cDNA clone IMAGE:351118 5'
1918	14942	27938	2.77	1.0E-90	11420514	NT	Homo sapiens similar to GALL1 (sal (Drosophila)) like (LOC57167), mRNA
2666	15928	28848	7.85	1.0E-90	6005720	NT	Homo sapiens chromosome 8 open reading frame 2 (OROF2), mRNA
3895	16904	29810	0.72	1.0E-90	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
3895	16904	29811	0.72	1.0E-90	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
4453	17479	30367	1.17	1.0E-90	AF167340.1	NT	Homo sapiens soluble interukin 1 receptor accessory protein (IL1RAP) gene, exon 8, alternative exons 9 and complete cds, alternatively spliced
5270	18277	31140	1.7	1.0E-90	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
5270	18277	31141	1.7	1.0E-90	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
5788	19881	32031	1.78	1.0E-90	AB014533.1	NT	Homo sapiens mRNA for KIAA0633 protein, partial cds
5936	19022	32216	0.99	1.0E-90	11428810	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
7276	20011	33313	0.87	1.0E-90	U91934.1	NT	Human retina-derived FOU-domain factor-1 mRNA, complete cds
7525	20489	33851	0.6	1.0E-90	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
7634	20878	34286	2.83	1.0E-90	11420758	NT	Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), mRNA
8173	22139	35585	3.96	1.0E-90	11422086	NT	Homo sapiens bromelain A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
8648	22682	36075	1.08	1.0E-90	AF163864.1	NT	Homo sapiens SIN3A isoform (SIN3A) gene, complete cds, alternatively spliced
8670	22682	36075	1.38	1.0E-90	11422109	NT	Homo sapiens CG1-15 protein (LOC51008), mRNA
8670	22682	36076	1.38	1.0E-90	11422106	NT	Homo sapiens CG1-15 protein (LOC51008), mRNA
10860	23910	37424	0.53	1.0E-90	X55545.1	NT	H. sapiens cDNA for CREB protein
10860	23910	37425	0.53	1.0E-90	X55545.1	NT	H. sapiens cDNA for CREB protein
11021	23986	37513	2.13	1.0E-90	R25686.1	EST_HUMAN	y94ad71.12 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:35477 5'
4224	17263	30140	6.09	8.0E-91	D12234.1	EST_HUMAN	HUM0005381 Liver HepG2 cell line Homo sapiens cDNA clone s381 3'

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8649	21617	35089	4.36	7.0E-91	11419234	NT	Homo sapiens melartin, ribo finger protein, 1 (MKRN1), mRNA
10663	23585	37083	0.67	7.0E-91	AB04161.1	EST_HUMAN	CN-BT043-060286-075 BT043 Homo sapiens cDNA
3488	16534	29459	1.71	5.0E-91	AA702794.1	EST_HUMAN	280604.st Soares, fetal_liver, spleen, TNF.LS, S1 Homo sapiens cDNA clone IMAGE:448015 3'
4544	17667	30454	1.05	5.0E-91	AU143539.1	EST_HUMAN	AU143539 Y79AA1 Homo sapiens cDNA clone Y79AA1002087 5'
4544	17657	30455	1.05	5.0E-91	AU143539.1	EST_HUMAN	AU143539 Y79AA1 Homo sapiens cDNA clone Y79AA1002087 5'
6770	19825	33108	1.19	5.0E-91	AB759895.1	EST_HUMAN	au48709.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518121 3' similar to
8547	21515	34033	1.65	5.0E-91	BF314882.1	EST_HUMAN	SW-ASPFG_FLAME Q47888 N4-(BE)TAN-ACETYLGLUCOSAMINYL-L-ASPARAGINASE PRECURSOR;
9113	22076	35506	1.28	5.0E-91	AV649878.1	EST_HUMAN	801901624FT NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4130833 5'
9113	22079	35507	1.28	5.0E-91	AV649878.1	EST_HUMAN	AV649878 GLC Homo sapiens cDNA clone GLC8YF08 3'
12892	25479		2.26	5.0E-91	AI693566.1	EST_HUMAN	q67011.x1 Soares, fetal_lung, NIH.L19W Homo sapiens cDNA clone IMAGE:1744365 3' similar to contains
3215	16270	26192	1.41	4.0E-91	AF156776.1	NT	MIR.62 MIR repetitive element;
3215	16270	26193	1.41	4.0E-91	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAA1-delta) mRNA, complete cds
11276	24228	37755	3.24	4.0E-91	AL163284.2	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAA1-delta) mRNA, complete cds
12377	25199	31811	1.55	4.0E-91	M77994.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C084
12377	25159	31858	1.55	4.0E-91	M77994.1	EST_HUMAN	EST01679 Hippocampus, Striatum (cat. #936205) Homo sapiens cDNA clone HHCMC60 similar to
1621	14654	27630	5.97	3.0E-91	11430163	EST_HUMAN	Retrovirus-related gag polyprotein
1621	14654	27631	5.97	3.0E-91	11430163	EST_HUMAN	Homo sapiens soluble carrier family 4, anion exchanger, member 3 (SLC4A3), mRNA
3350	16401	29323	1.76	3.0E-91	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
3476	16522	29445	3.84	3.0E-91	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
3476	16522	29446	3.84	3.0E-91	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
3802	16842	29750	1.47	3.0E-91	AF084530.1	NT	Homo sapiens cyclin-D binding MAP-like protein mRNA, complete cds
4621	17642	30550	4.36	3.0E-91	M30538.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
5016	18030	30915	1.33	3.0E-91	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
5016	18030	30916	1.33	3.0E-91	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C086
5770	19862	32041	1.43	3.0E-91	11434964	NT	Homo sapiens epididymal secretory protein (19.5KD) (HE1), mRNA
6437	19503		2.97	3.0E-91	4502740	NT	Homo sapiens cyclin-dependent kinase 6 (CDK6) mRNA
6735	19791	33071	3.34	3.0E-91	11497811	NT	Homo sapiens gamma-aminobutyric acid (GABA) B receptor, 1 (GABBR1), transcript variant 2, mRNA

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6735	19791	33072	3.34	3.0E-91	11497811	NT	Homo sapiens gamma-aminobutyric acid (GABA) B receptor, 1 (GABBR1), transcript variant 2, mRNA
7800	20843	34226	4.07	3.0E-91	U86956.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exons 10 and 11
7900	20843	34227	4.07	3.0E-91	U86956.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exons 10 and 11
8278	21247	34659	0.44	3.0E-91	66015938	NT	Homo sapiens enkyrin-like with transmembrane domains 1 (ANKTM1), mRNA
8123	22089	35577	2.51	3.0E-91	D16494.1	NT	Human mRNA for very low density lipoprotein receptor, complete cds
9643	22987	36036	0.8	3.0E-91	AB011166.1	NT	Homo sapiens mRNA for KIAA0564 protein, partial cds
11235	24188	37107	2.53	3.0E-91	AB032176.2	NT	Homo sapiens EH22 mRNA, complete cds
11536	24477	38028	2.3	3.0E-91	AB028003.1	NT	Homo sapiens mRNA for KIAA1080 protein, partial cds
11536	24477	38027	2.3	3.0E-91	AB028003.1	NT	Homo sapiens mRNA for KIAA1080 protein, partial cds
12620	25314	31794	1.48	3.0E-91	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12650	18335	31174	3.88	3.0E-91	AF169555.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 8
12650	18335	31175	3.88	3.0E-91	AF169555.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 8
60	13170	26078	2.39	1.0E-91	AL183284.2	NT	Homo sapiens chromosome 21 segment HS21C084
1250	14286	27252	7.11	1.0E-91	AW448746.1	EST_HUMAN	UHLB13-ak5-01-011x1 NCI CGAP Sub5 Homo sapiens cDNA clone IMAGE:2735280 3'
9487	18587	31488	0.73	1.0E-91	11434402	NT	Homo sapiens hypothetical protein PRO1855 (PRO1855), mRNA
7020	20146	33494	1.9	1.0E-91	BF348182.1	EST_HUMAN	602022088F1 NCI CGAP Bm87 Homo sapiens cDNA clone IMAGE:4157804 5'
7020	20146	33495	1.9	1.0E-91	BF348182.1	EST_HUMAN	602022088F1 NCI CGAP Bm87 Homo sapiens cDNA clone IMAGE:4157804 5'
8161	21089	34498	0.59	1.0E-91	M20453.1	NT	Human nucleus-encoded mitochondrial aldehyde dehydrogenase 2 (ALDH2) gene, exon 10
1246	14283	27246	6.04	9.0E-92	AJ001688.1	NT	Homo sapiens NKG2D gene, exon 10
1246	14283	27247	6.04	9.0E-92	AJ001688.1	NT	Homo sapiens NKG2D gene, exon 10
5538	18335	31576	2.94	9.0E-92	J03007.1	NT	Human Na ⁺ /K ⁺ ATPase alpha-subunit mRNA, partial cds
5596	18781	31933	2.18	9.0E-92	11427149	NT	Homo sapiens hypothetical protein FLJ20280 (FLJ20280), mRNA
8568	18556	32928	3.86	9.0E-92	AF310105.1	NT	Homo sapiens NALP1 mRNA, complete cds
8190	21160	34598	0.47	9.0E-92	AJ260568.1	NT	Homo sapiens partial TM4SF2 gene for tetraspanin protein, exon 5
8190	21160	34570	0.47	9.0E-92	AJ260568.1	NT	Homo sapiens partial TM4SF2 gene for tetraspanin protein, exon 5
8717	21685	35112	1.73	9.0E-92	AB040945.1	NT	Homo sapiens mRNA for KIAA1572 protein, partial cds
8717	21685	35113	1.73	9.0E-92	AB040945.1	NT	Homo sapiens mRNA for KIAA1572 protein, partial cds
9629	22873	36023	1.69	9.0E-92	11422088	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
92	13208	28132	3.78	8.0E-92	W26367.1	EST_HUMAN	2683 Human retina cDNA randomly primed nucleotide-exchange protein 2 (BIG2), mRNA
285	13380	26306	4.52	8.0E-92	BE366383.1	EST_HUMAN	001273513F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3814887 5'
1839	14865	27693	1.08	8.0E-92	11434722	NT	Homo sapiens diacylglycerol kinase, gamma (DGK) (DGKG), mRNA
1839	14865	27694	1.08	8.0E-92	11434722	NT	Homo sapiens diacylglycerol kinase, gamma (DGK) (DGKG), mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5140	18148	31028	0.7	8.0E-92	AW157571.1	EST_HUMAN	au89h08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782911 3' similar to
5466	18568	31478	0.84	8.0E-92	AB046820.1	NT	TR_060302 O60302 KIA0055 PROTEIN, contains element MER22 repetitive element;
							Homo sapiens mRNA for KIA01900 protein, partial cds
5576	18672	31635	0.81	8.0E-92	AF264717.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds
6897	19754	33031	1.19	8.0E-92	AJ009761.1	NT	Homo sapiens MCP-4 gene
6701	19758	33038	0.79	8.0E-92	AF179428.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit variant 1 (REV3L) mRNA, complete cds
8154	21092	34491	1.16	8.0E-92	AF251025.2	NT	Homo sapiens double FYVE-containing protein 1 mRNA, complete cds
8428	21397		0.56	8.0E-92	11416967	NT	Homo sapiens AIM-1 protein (LOC51157), mRNA
8768	21735	35155	3.52	8.0E-92	L04193.1	NT	Human lens membrane protein (mp19) gene, exon 11
8768	21735	35156	3.52	8.0E-92	L04193.1	NT	Human lens membrane protein (mp19) gene, exon 11
8669	21836	35258	0.66	8.0E-92	11426569	NT	Homo sapiens transcription termination factor, RNA polymerase II (TTF2), mRNA
9417	22382	35920	2.48	8.0E-92	AB014511.1	NT	Homo sapiens mRNA for KIA0081 protein, partial cds
10386	23308	36796	1.86	8.0E-92	Y13829.1	NT	Homo sapiens mRNA for MBNL protein
11155	24114	37640	3.34	8.0E-92	AF074393.1	NT	Homo sapiens nuclear ribogem- and stress-activated protein kinase-1 (MSK1) mRNA, complete cds
11598	24654	38233	1.72	8.0E-92	4503340	NT	Homo sapiens dihydropyrimidine S-succinyltransferase (L2 component of 2-oxo-glutarate complex) (DLST) mRNA
27	13147	29046	1.69	7.0E-92	AB031007.1	NT	Homo sapiens DNA, VHC class I region, 7.1 ancestral haplotype
238	15836	26292	0.69	7.0E-92	AB018301.1	NT	Homo sapiens mRNA for KIA00758 protein, partial cds
238	15836	26293	0.69	7.0E-92	AB018301.1	NT	Homo sapiens mRNA for KIA00758 protein, partial cds
553	13660		1.22	7.0E-92	AF007822.1	NT	Homo sapiens cytoplasmic Sorapase truncated isoform mRNA, complete cds
1285	14320	27283	1.14	7.0E-92	4502384	NT	Homo sapiens B-cell CLL/lymphoma 7b (BCL7B) mRNA
2197	15212	28230	3.62	7.0E-92	5031570	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
2197	15212	28231	3.62	7.0E-92	5031570	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
2570	15571	28591	1.27	7.0E-92	AF167708.1	NT	Homo sapiens cyclin-like repeat-containing protein S52 precursor, mRNA, complete cds
2735	15729	28743	2.96	7.0E-92	6005738	NT	Homo sapiens NRAS-related gene (D1S155E), mRNA
2763	15755	28776	1.31	7.0E-92	AB031007.1	NT	Homo sapiens DNA, VHC class I region, 7.1 ancestral haplotype
3356	18314	29327	0.97	7.0E-92	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAMT) mRNA
3356	18314	29328	0.97	7.0E-92	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAMT) mRNA
							N-CAM=145 kDa neural cell adhesion molecule [human, small cell lung cancer cell line OS2-R, mRNA, 2960 nt]
4617	17638	30528	1.44	7.0E-92	S71824.1	NT	N-CAM=145 kDa neural cell adhesion molecule [human, small cell lung cancer cell line OS2-R, mRNA, 2960 nt]
4617	17638	30529	1.44	7.0E-92	S71824.1	NT	N-CAM=145 kDa neural cell adhesion molecule [human, small cell lung cancer cell line OS2-R, mRNA, 2960 nt]

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5040	18053	30932	0.91	7.0E-92	AL163281.2	NT	Homo sapiens chromosome 21 segment HS21C081
5833	18436	31191	5.57	7.0E-92	AA446208.1	EST_HUMAN	z668412.1 Soares, testis, NHT Homo sapiens cDNA clone IMAGE:781178 5'
1891	14823		1.08	5.0E-92	BE300882.1	EST_HUMAN	601283012F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3909018 5'
9947	22783		0.42	3.0E-92	W27698.1	EST_HUMAN	36a7 Human retina cDNA, randomly primed sublibrary Homo sapiens cDNA
2776	15768	28788	2.03	3.0E-92	BE909714.1	EST_HUMAN	601501242F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902839 5'
6976	19061	32262	4.55	3.0E-92	AA376336.1	EST_HUMAN	EST191020 Synovial sarcoma Homo sapiens cDNA 5' and similar to similar to fibronectin protein S13
11116	24076	37599	5.32	3.0E-92	X15804.1	NT	Human mRNA for alpha-actinin
11116	24076	37600	5.32	3.0E-92	X15804.1	NT	Human mRNA for alpha-actinin
28	13148	28047	1.09	2.0E-92	4501698	NT	Homo sapiens actinin A receptor, type IIB (ACVR2B) mRNA
180	13280	29205	3.9	2.0E-92	11422946	NT	Homo sapiens hypothetical protein QJ462023.2 (QJ462023.2), mRNA
180	13280	29206	3.9	2.0E-92	11422946	NT	Homo sapiens hypothetical protein QJ462023.2 (QJ462023.2), mRNA
750	13511	26753	1.25	2.0E-92	BE298190.1	EST_HUMAN	601118337F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028304 5'
750	13511	26754	1.25	2.0E-92	BE298190.1	EST_HUMAN	601118337F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028304 5'
1727	14757		1.4	2.0E-92	IS78653.1	NT	mg-mus-related (human, Genomic, 2418 nt)
1953	14876	27976	1.73	2.0E-92	AI818119.1	EST_HUMAN	wk27607.XT NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2413549 3' similar to TR-Q12844
1953	14876	27977	1.73	2.0E-92	AI818119.1	EST_HUMAN	Q12844 BREAKPOINT: CLUSTER REGION PROTEIN ;
2004	15082	28101	6.36	2.0E-92	4506860	NT	wk27607.XT NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2413549 3' similar to TR-Q12844
2658	15665	28684	21.32	2.0E-92	8912457	NT	Q12844 BREAKPOINT: CLUSTER REGION PROTEIN ;
3827	16670	29582	1.17	2.0E-92	AF231919.1	NT	Homo sapiens syndecan 4 (amphiglycan, ryadocan) (SDC4) mRNA
3827	16670	29583	1.17	2.0E-92	AF231919.1	NT	Homo sapiens cadherin binding protein 1 (KIA08330), mRNA
3827	16670	29583	1.17	2.0E-92	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
3898	16741	29654	5.32	2.0E-92	5803180	NT	Homo sapiens chromosome 21 unknown mRNA
4318	17347	30231	1.4	2.0E-92	M10976.1	NT	Homo sapiens stress-induced-phosphoprotein 1 (Hsp70/Hsp90-organizing protein) (STP1), mRNA
5029	18043		2.37	2.0E-92	AL040437.1	EST_HUMAN	Human endogenous retroviral DNA (4-1), complete retroviral segment
5853	18044	32129	0.53	2.0E-92	AF016535.1	NT	DKFZp434C0414.1 (1433 (Synonym: Hites3) Homo sapiens cDNA clone DKFZp434C0414 5'
6434	18600		13.83	2.0E-92	4504756	NT	Homo sapiens P-glycoprotein (mdr1) mRNA, complete cds
6798	18622	33104	2.24	2.0E-92	AB028991.1	NT	Homo sapiens Integrin, alpha L (antigen CD11a (p180), lymphocyte function-associated antigen 1; alpha polypeptide) (ITGAL) mRNA
7701	20659		0.81	2.0E-92	U67780.1	NT	Homo sapiens mRNA for KIAA1068 protein, partial cds
7730	20659		0.71	2.0E-92	U67780.1	NT	Human NPY Y1-like receptor pseudogene mRNA, complete cds
9207	22173	35604	1.91	2.0E-92	AW340174.1	EST_HUMAN	Human NPY Y1-like receptor pseudogene mRNA, complete cds
							nd0202.XT Soares, NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2908371 3' similar to TR-Q02711
							D02711 PRQ-POL-OUTPASE POLYPROTEIN ;

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11112	24072	37594	4.98	2.0E-92	11434600	NT	Homo sapiens thyroid stimulating hormone receptor (TSHR), mRNA
11389	24335	37864	4.64	2.0E-92	5803103	NT	Homo sapiens male-specific lethal-3 (Drosophila)-like 1 (MSL3L1), mRNA
12716	25370	37173	3.78	2.0E-92	AB029016.1	NT	Homo sapiens mRNA for KIAA1093 protein, partial cds
12933	16666	26834	2.95	2.0E-92	6812457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1857	14892	27890	1.77	1.0E-92	R78078.1	EST_HUMAN	y80e08.r1 Scores placenta N22-IP Homo sapiens cDNA clone IMAGE:145574 5'
1877	14892	27891	1.77	1.0E-92	R78078.1	EST_HUMAN	y80e08.r1 Scores placenta N22-IP Homo sapiens cDNA clone IMAGE:145574 5'
2087	15104	28122	34.96	1.0E-92	4506568	NT	Homo sapiens ribosomal protein, large, P1 (RPLP1), mRNA
8590	21558	34874	0.77	1.0E-92	BE439625.1	EST_HUMAN	HTM1-238F HTM1 Homo sapiens cDNA
9519	22482	35927	3.43	1.0E-92	A1380356.1	EST_HUMAN	tp01b02.x1 NCI CGAP CLL1 Homo sapiens cDNA clone IMAGE:2107487 3' similar to SW:PTNF_HUMAN Q16825 PROTEIN-TYROSINE PHOSPHATASE D1, contains Alu repetitive element, contains element MER17 repetitive element
9519	22482	35928	3.43	1.0E-92	A1380356.1	EST_HUMAN	tp01b02.x1 NCI CGAP CLL1 Homo sapiens cDNA clone IMAGE:2107487 3' similar to SW:PTNF_HUMAN Q16825 PROTEIN-TYROSINE PHOSPHATASE D1, contains Alu repetitive element, contains element MER17 repetitive element
2044	16063	28083	2.77	9.0E-93	AU121681.1	EST_HUMAN	AU121681 MAMMA1 Homo sapiens cDNA clone MAMMA1.000738 5'
2088	16077		11.43	9.0E-93	AA318723.1	EST_HUMAN	EST188414 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to ribosomal protein L29
2655	19562		1.44	9.0E-93	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
3628	16671	29584	1.44	9.0E-93	BE388571.1	EST_HUMAN	tp01281807F1 NIH_MGC 44 Homo sapiens cDNA clone IMAGE:3603832 5'
11959	24838		35.01	9.0E-93	11418526	NT	Homo sapiens ribosomal protein L10a (RPL10A), mRNA
5685	19645	32913	0.52	8.0E-93	AW014042.1	EST_HUMAN	U1H-B10-ash-H-05-0.U1.s1 NCI CGAP Sub1 Homo sapiens cDNA clone IMAGE:2709371 3'
5685	19645	32914	0.52	8.0E-93	AW014042.1	EST_HUMAN	U1H-B10-ash-H-05-0.U1.s1 NCI CGAP Sub1 Homo sapiens cDNA clone IMAGE:2709371 3'
6744	19799	33079	3.82	8.0E-93	BF036364.1	EST_HUMAN	80146892F1 NIH_MGC 66 Homo sapiens cDNA clone IMAGE:3868908 5'
246	13343	26268	9.15	7.0E-93	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
3091	16149	20063	1.68	6.0E-93	11529178	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
6096	19175	32391	0.56	6.0E-93	11450204	NT	Homo sapiens hypothetical protein FLJ10897 (FLJ10897), mRNA
6096	19175	32392	0.56	6.0E-93	11450204	NT	Homo sapiens hypothetical protein FLJ10897 (FLJ10897), mRNA
6838	19891	33188	0.95	6.0E-93	AB030363.1	NT	Homo sapiens mRNA for KIAA1287 protein, partial cds
7101	20035	33338	1.14	6.0E-93	AF066771.1	NT	Homo sapiens PTH-responsive osteosarcoma B1 protein (B1) mRNA, complete cds
1381	14416	27385	3.77	5.0E-93	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
1406	14439	27408	4.76	5.0E-93	A1674184.1	EST_HUMAN	w09e08.x1 NCI CGAP P128 Homo sapiens cDNA clone IMAGE:2314670 3'
1406	14439	27409	4.78	5.0E-93	A1674184.1	EST_HUMAN	w09e08.x1 NCI CGAP P128 Homo sapiens cDNA clone IMAGE:2314670 3'
1471	14504		1.02	5.0E-93	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001

Table 4

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3247	16302	26226	3.91	5.0E-93	X04201.1	NT	Human skeletal muscle 1.3 kb mRNA for topomyosin
5997	18984	32175	0.9	5.0E-93	M22878.1	NT	Human somatic cytochrome c (HCT) processed pseudogene, complete cds
							Homo sapiens wiscr1 (WBSOR1) and wiscr6 (WBSOR5) genes, complete cds, alternatively spliced and replication factor C subunit 2 (RFC2) gene, complete cds
6230	18304		1.22	5.0E-93	AF045555.1	NT	Homo sapiens protein phosphatase-1 regulatory subunit 7 (PPP1R7) gene, exon 11, complete cds and alternatively spliced product
7892	20921	34312	3.32	5.0E-93	AF067136.1	NT	
8852	21918	35343	0.56	5.0E-93	4557528	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
8852	21918	35344	0.56	5.0E-93	4557528	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
9081	22808	36373	2.06	5.0E-93	AF274863.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
10166	23091	36569	1.33	5.0E-93	5032156	NT	Homo sapiens TAR (HIV) RNA-binding protein 1 (TARBP1) mRNA
10430	23352	36836	1.59	5.0E-93	AF069313.2	NT	Homo sapiens WSB1 protein (WSB1) mRNA, complete cds
11174	24131	37631	2.48	5.0E-93	11439599	NT	Homo sapiens nucleobindin 2 (NUCB2), mRNA
12627	25622	31677	2.55	5.0E-93	11417877	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA
13060	26622	31677	1.32	5.0E-93	11417877	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA
88	13204		7.06	4.0E-93	AA469633.1	EST_HUMAN	z66809.s1 Soares, Jedio, NHT Homo sapiens cDNA clone IMAGE:706688 3' similar to SW:CLIPA_RAT
446	13516	29450	1.25	4.0E-93	4557879	NT	P37397 CALPONIN, ACIDIC ISOFORM;
446	13516	29451	1.25	4.0E-93	4557879	NT	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA
773	13832	29777	1.38	4.0E-93	7657454	NT	Homo sapiens pascacillo (zebrafish) homolog 1, containing BRC1 domain (PES1), mRNA
773	13832	29777	1.38	4.0E-93	7657454	NT	Homo sapiens pascacillo (zebrafish) homolog 1, containing BRC1 domain (PES1), mRNA
773	13832	29777	1.38	4.0E-93	7657454	NT	Homo sapiens pascacillo (zebrafish) homolog 1, containing BRC1 domain (PES1), mRNA
1187	14227	27183	1.62	4.0E-93	8923658	NT	Homo sapiens hypothetical protein FLJ20731 (FLJ20731), mRNA
1594	15015	29022	4.21	4.0E-93	AF047677.1	NT	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA
2515	15613	28638	1.08	4.0E-93	7656972	NT	Homo sapiens tumor antigen SLP-8p (HCC8), mRNA
3580	16625	29546	0.94	4.0E-93	7705396	NT	Homo sapiens interferin 18 receptor 1 (IL18R1) mRNA
4078	17113	30009	2.01	4.0E-93	4504654	NT	Homo sapiens tumor antigen SLP-8p (HCC8), mRNA
5058	16625	29546	0.93	4.0E-93	7705396	NT	Homo sapiens tumor antigen SLP-8p (HCC8), mRNA
5727	18821	32001	4.28	4.0E-93	T46864.1	EST_HUMAN	Y694c12.1 Streptococcus liver (#637224) Homo sapiens cDNA clone IMAGE:78638 5' similar to similar to SP:AA4391 AA4391 SERUM RESPONSE ELEMENT-BINDING PROTEIN SRE-ZBP - HUMAN ,
11468	24411	37650	13.22	4.0E-93	AF692051.1	EST_HUMAN	AF692051 GKCG Homo sapiens cDNA clone GKDR6707 5'
3965	16708	29622	9.21	3.0E-93	BF69030.1	EST_HUMAN	602246554F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4332036 5'
3965	16708	29623	9.21	3.0E-93	BF69030.1	EST_HUMAN	602246554F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4332036 5'
4263	17292		1.23	3.0E-93	AF225886.1	NT	Homo sapiens tensin mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5981	18670	32161	0.56	3.0E-93	AI553853.1	EST_HUMAN	h28g03.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2169076 3'
5981	18670	32162	0.56	3.0E-93	AI553853.1	EST_HUMAN	h28g03.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2169076 3'
6715	19771	33081	1.55	3.0E-93	11426182	NT	Homo sapiens GONS (general control of amino-acid synthesis, yeast, homolog)-like 2 (GONS2), mRNA
11152	24112	37637	3.04	3.0E-93	AI624829.1	EST_HUMAN	wb52d05.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2304469 3'
192	13263	26279	8.05	2.0E-93	AB015610.1	NT	Chlorococcus eethiops mRNA for ribosomal protein S4X, complete cds
192	13263	26220	8.05	2.0E-93	AB015610.1	NT	Chlorococcus eethiops mRNA for ribosomal protein S4X, complete cds
323	13415	26340	12.88	2.0E-93	AL163265.2	NT	Homo sapiens chromosome 21 segment HS21C085
324	13415	26340	8.91	2.0E-93	AL163265.2	NT	Homo sapiens chromosome 21 segment HS21C085
2140	15157	28173	1.15	2.0E-93	U40763.1	NT	Human Ctk-associated RS cytophlin CAR5-Cyp mRNA, complete cds
2494	15497	28523	2.03	2.0E-93	BE252982.1	EST_HUMAN	60117766F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3358220 5'
5491	18591	31502	5.04	2.0E-93	AW984355.1	EST_HUMAN	EST376459 MAGE (ressequences, MAGE) Homo sapiens cDNA
5502	18602	31531	0.78	2.0E-93	4758153	EST_HUMAN	Homo sapiens deafness, autosomal dominant 15 (DFNA5), mRNA
5621	18717		0.63	2.0E-93	BF351456.1	EST_HUMAN	QY3-HT0513-250300-125-h04-HT0513 Homo sapiens cDNA
5720	18814	31993	1.08	2.0E-93	11430039	NT	Homo sapiens hypothetical protein (LOC51318), mRNA
5734	18929	32006	0.7	2.0E-93	U74313.1	EST_HUMAN	HSU74313 Human chromosome 14 Homo sapiens cDNA clone 1-86
6841	19594		1.08	2.0E-93	AW502002.1	EST_HUMAN	U1HF-BN0-s1c-p05-0-U1T NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078326 5'
12520	25251		3.14	2.0E-93	AA126735.1	EST_HUMAN	d28c10.s1 Scaree, pregnant, uterus, N1b1PU Homo sapiens cDNA clone IMAGE:5033463 3'
12601	26003		2.69	2.0E-93	LA1626.1	NT	Homo sapiens CYP17 gene, 5' end
12653	26461		3.49	2.0E-93	BF093327.1	EST_HUMAN	601176853F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
103	13219	26143	1.82	1.0E-93	AF238997.1	NT	Homo sapiens CTR1, pseudogene
103	13219	26144	1.82	1.0E-93	AF238997.1	NT	Homo sapiens CTR1, pseudogene
519	13590	28510	16.6	1.0E-93	7657016	NT	Homo sapiens hypothetical protein (QJ22619.C1.1), mRNA
802	13669	26583	5.09	1.0E-93	AI146755.1	EST_HUMAN	QJ4508.x1 NCI_CGAP_G11 Homo sapiens cDNA clone IMAGE:1672593 3' similar to TR-Q62384 Q62384
873	13929	26687	4.11	1.0E-93	D87675.1	NT	ZINC FINGER PROTEIN ;
1241	14277	27237	8.85	1.0E-93	8923270	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
1241	14277	27238	8.85	1.0E-93	8923270	NT	Homo sapiens hypothetical protein FLJ20291 (FU20291), mRNA
2344	15354	28376	1.27	1.0E-93	AF231681.1	NT	Homo sapiens long chain polyunsaturated fatty acid elongation enzyme (HELO1) mRNA, complete cds
2471	15475	28499	9.52	1.0E-93	AF056066.1	NT	Homo sapiens MHC class 1 region
2833	14334	27396	2.05	1.0E-93	BE297369.1	EST_HUMAN	601177666F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532965 5'
2833	14334	27297	2.05	1.0E-93	BE297369.1	EST_HUMAN	601177666F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532965 5'
2945	16003	28928	2.18	1.0E-93	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3226	16284		1.3	1.0E-93	AF231981.1	NT	Homo sapiens long chain polyunsaturated fatty acid elongation enzyme (HELO1) mRNA, complete cds
4460	17486	30373	1.99	1.0E-93	AL163264.2	NT	Homo sapiens chromosome 21 segment HS21C084
5646	18742	31807	1.68	1.0E-93	U78509.1	NT	Homo sapiens glucocorticoid receptor (GR) gene, intron D, exon S, and intron E
5646	18742	31808	1.68	1.0E-93	U78509.1	NT	Homo sapiens glucocorticoid receptor (GR) gene, intron D, exon S, and intron E
5859	18949	32135	1.02	1.0E-93	AF227138.1	NT	Homo sapiens calcitriol receptor 2 (CTR2) gene, complete cds
6022	19105	32308	10.63	1.0E-93	4557792	NT	Homo sapiens neurofibromin 1 (neurofibromatosis, von Recklinghausen disease, Witsen disease) (NF1) mRNA
6321	19382	32653	0.81	1.0E-93	7662241	NT	Homo sapiens KIAA0672 gene product (KIAA0672), mRNA
6569	20184	33507	2.08	1.0E-93	11431580	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA
7462	20428	33785	3.07	1.0E-93	D42072.1	NT	Human mRNA for NF1 N-isoform-exon11, complete cds
8603	21571	34987	1.97	1.0E-93	AB037632.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
8698	21654	35274	1.12	1.0E-93	Y10183.1	NT	H. sapiens mRNA for MEMD protein
8698	21652	35387	1.29	1.0E-93	AF162032.1	NT	Homo sapiens protein kinase inhibitor gamma (PKIG) mRNA, complete cds
9379	22344	35775	0.47	1.0E-93	AB023228.1	NT	Homo sapiens mRNA for KIAA1011 protein, partial cds
9379	22344	35776	0.47	1.0E-93	AB023228.1	NT	Homo sapiens mRNA for KIAA1485 protein, partial cds
9807	21130	34533	1.85	1.0E-93	AB040918.1	NT	Homo sapiens mRNA for KIAA1485 protein, partial cds
9811	21134	34537	1.04	1.0E-93	AF091395.1	NT	Homo sapiens Trio isoform mRNA, complete cds
9848	22873	36333	4.08	1.0E-93	X13474.1	NT	Human PrkA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 9)
9848	22873	36334	4.08	1.0E-93	X13474.1	NT	Human PrkA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 9)
10083	23010	36482	0.71	1.0E-93	AL049801.1	NT	Novel human gene mapping to chromosome 13, similar to rat RhoGAP
10504	23426	36624	0.63	1.0E-93	11433648	NT	Homo sapiens tyrosine kinase 3 (RYR3), mRNA
12673	23405		2.11	1.0E-93	AJ230125.1	NT	Homo sapiens GLUT1 gene, exon 1
12847	24657		3.14	1.0E-93	11417856	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA
10856	23876		1.25	8.0E-94	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
3986	17028	29637	2.15	5.0E-94	AF142482.1	NT	Homo sapiens transcription enhancer factor-5 mRNA, complete cds
5441	18543	31454	3.23	5.0E-94	AB014512.1	NT	Homo sapiens mRNA for KIAA0612 protein, partial cds
5441	18543	31455	3.23	5.0E-94	AB014512.1	NT	Homo sapiens mRNA for KIAA0612 protein, partial cds
8166	19241	32472	3.06	5.0E-94	AA722434.1	EST_HUMAN	2987003.37 Scores, total, best, N82H19W Homo sapiens cDNA clone IMAGE:409594.3
7206	20230	33662	1.34	5.0E-94	A015800.1	EST_HUMAN	2987003.37 Scores, total, best, N82H19W Homo sapiens cDNA clone IMAGE:1823369.3
8988	21952	33762	0.82	5.0E-94	BF529115.1	EST_HUMAN	602042163.F1 NCI CGAP Brn67 Homo sapiens cDNA clone IMAGE:4180023.5
11318	24268	37795	2.81	5.0E-94	11423962	NT	Homo sapiens adenylate kinase 2 (AK2), mRNA
11318	24268	37796	2.81	5.0E-94	11423962	NT	Homo sapiens adenylate kinase 2 (AK2), mRNA
12497	25965	31318	6.07	5.0E-94	789398.1	EST_HUMAN	408604.4.1 Scores fetal liver spleen TNFIS Homo sapiens cDNA clone IMAGE:182369.3

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
13048	25588		1.9	5.0E-94	9558724	NT	Homo sapiens cleavage and polyadenylation specific factor 1, 160kD subunit (CPSF1), mRNA
1659	14885		9.09	4.0E-94	U05994.1	NT	Homo sapiens ribosomal protein L27 mRNA, complete cds
2666	15693	28692	1	4.0E-94	4506608	NT	Homo sapiens protein phosphatase 1, regulatory subunit 10 (PPP1R10), mRNA
4748	17768	30664	2.95	4.0E-94	AI591312.1	EST_HUMAN	WT1110.X1 NCI CGAP_Bms22 Homo sapiens cDNA clone IMAGE:2259403 3' similar to TR-Q15265 O15265 PROTEIN TYROSINE PHOSPHATASE
6812	19870	32947	1.96	4.0E-94	11440870	NT	Homo sapiens solute carrier family 22 (organic cation transporter), member 1-like (SLC22A1L), mRNA
6812	19870	32948	1.96	4.0E-94	11440670	NT	Homo sapiens solute carrier family 22 (organic cation transporter), member 1-like (SLC22A1L), mRNA
7097	20031		0.99	4.0E-94	U27388.1	NT	Homo sapiens hurleridin (HD) gene, exon 37
11782	20937	37458	1.83	4.0E-94	11545702	NT	Homo sapiens hypothetical protein FLJ12455 (FLJ12455), mRNA
613	13678	26594	2.23	3.0E-94	AB022785.1	NT	Homo sapiens ASH2L gene, complete cds, similar to Drosophila ash2 gene
722	13784	28718	1.02	3.0E-94	4502508	NT	Homo sapiens complement component 5 (C5) mRNA
1754	14783	27767	1.12	3.0E-94	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S82 precursor, mRNA, complete cds
1754	14783	27768	1.12	3.0E-94	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S82 precursor, mRNA, complete cds
1787	14816	27801	4.2	3.0E-94	4557556	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
5764	18656	32037	3.32	3.0E-94	11490268	NT	Homo sapiens zinc finger protein 277 (ZNF277), mRNA
6274	19347	32679	0.99	3.0E-94	AB011538.1	NT	Homo sapiens mRNA for MEGF2, partial cds
6594	19654	32926	4.91	3.0E-94	11526228	NT	Homo sapiens chromosome 21 open reading frame 18 (C21ORF18), mRNA
8088	21024	34423	0.52	3.0E-94	4829863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
8540	21608	34225	1.03	3.0E-94	AF152309.1	NT	Homo sapiens proboscoidin alpha 13 (PODH-alpha13) mRNA, complete cds
8934	21900	35327	4.93	3.0E-94	AB014579.1	NT	Homo sapiens mRNA for KIAA0679 protein, partial cds
9950	22877	36340	4.37	3.0E-94	AF087942.1	NT	Homo sapiens glycogenin-1L mRNA, complete cds
11436	24379	37919	3.76	3.0E-94	4757821	NT	Homo sapiens axonal transport of synaptic vesicles (ATSV) mRNA
11987	24964	38460	2.17	3.0E-94	U28711.1	NT	Homo sapiens cdc-b truncated form 1 lacking leucine zipper mRNA, complete cds
10110	23038	36514	0.66	2.0E-94	AI910393.1	EST_HUMAN	w30011.X1 NCI CGAP_Cot16 Homo sapiens cDNA clone IMAGE:2391813 3'
10110	23038	36515	0.66	2.0E-94	AI910393.1	EST_HUMAN	w30011.X1 NCI CGAP_Cot16 Homo sapiens cDNA clone IMAGE:2391813 3'
150	13283	26182	2.81	1.0E-94	BE285714.1	EST_HUMAN	6011175762F NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
3105	16162	29073	2.24	1.0E-94	BE253433.1	EST_HUMAN	601111696F NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352558 5'
3105	16162	29074	2.24	1.0E-94	BE253433.1	EST_HUMAN	601111696F NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352558 5'
4368	17414	30299	1.18	1.0E-94	6905632	EST_HUMAN	Homo sapiens hypothetical protein (FLJ20746), mRNA
6391	19265	32501	0.85	1.0E-94	AE000269.1	NT	Escherichia coli K-12 MG1655 section 159 of 400 of the complete genome
6397	19465	32711	0.81	1.0E-94	AL040518.1	EST_HUMAN	DKFZ434G0314_1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZ434G0314 5'
6406	19474	32722	0.77	1.0E-94	H08270.1	EST_HUMAN	YF702.R1 Scores infant brain TNB Homo sapiens cDNA clone IMAGE:45053 5'

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6668	19725	33000	0.56	1.0E-94	AV725962.1	EST_HUMAN	AV725962 HTG Homo sapiens cDNA clone HICBEF05 5'
8450	21419	34833	0.56	1.0E-94	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
8450	21419	34834	0.56	1.0E-94	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
9611	22615	36067	2.57	1.0E-94	11428710	NT	Homo sapiens paired box gene 5 (B-cell lineage specific activator protein) (PAX5), mRNA
10146	23072	36547	1.93	1.0E-94	BE780478.1	EST_HUMAN	601468748F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:3872089 5'
11405	24349	37881	2.77	1.0E-94	U65560.1	NT	Homo sapiens IL-1 receptor antagonist (L-1R) (L-1RN) gene, alternatively spliced forms, complete cds
11646	24583	38151	1.94	1.0E-94	AI272244.1	EST_HUMAN	ap22e02.x1 Schiller diploid/drogiloma Homo sapiens cDNA clone IMAGE:1956122 3' similar to TR-Q62845
12650	24923	38520	3.39	1.0E-94	11418871	NT	Q62845 NEURAL CELL ADHESION PROTEIN BIG-2 PRECURSOR. ;
12616	13253	28182	1.43	1.0E-94	BE295714.1	EST_HUMAN	Homo sapiens KIAA0164 gene product (KIAA0164), mRNA
12837	13293	26162	1.31	1.0E-94	BE295714.1	EST_HUMAN	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
1473	14506	27480	1.3	9.0E-95	AF027302.1	NT	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
3170	16225	29140	1.19	9.0E-95	7662027	NT	Homo sapiens TNF-alpha stimulated ABC protein (ABC50) mRNA, complete cds
3170	16225	29141	1.19	9.0E-95	7662027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
5478	18579	31480	1.38	9.0E-95	X82569.1	NT	M.musculus gyt1 gene (exons 1c and 2)
5479	18579	31490	1.38	9.0E-95	X82569.1	NT	M.musculus gyt1 gene (exons 1c and 2)
8595	21563	34977	1.61	9.0E-95	AF274753.1	NT	Homo sapiens progressive ankylosis-like protein (ANK) mRNA, complete cds
4567	17590	39482	1.82	8.0E-95	AI700998.1	EST_HUMAN	we06604.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2340606 3' similar to gbK00559
4567	17590	39483	1.82	8.0E-95	AI700998.1	EST_HUMAN	we06604.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2340606 3' similar to gbK00559
7136	20112	33426	0.83	8.0E-95	11419378	NT	TUBULIN ALPHA-1 CHAIN (HUMAN);
7452	20418	33773	1.55	8.0E-95	11426528	NT	Homo sapiens KIAA0183 gene product (KIAA0183), mRNA
7452	20418	33774	1.55	8.0E-95	11426528	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 11 (PSMD11), mRNA
8339	21507	34924	2.02	8.0E-95	AF032897.1	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 11 (PSMD11), mRNA
9720	22748	38168	1.97	8.0E-95	11420944	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
9720	22748	38200	1.97	8.0E-95	11420944	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
10207	23132	36619	2.87	8.0E-95	5174644	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
10208	23163	36619	3.08	8.0E-95	AB037816.1	NT	Homo sapiens prolamine dehydrogenase (proline oxidase) (PRODH) mRNA
10595	23517	37008	0.8	8.0E-95	9845523	NT	Homo sapiens mRNA for KIAA1395 protein, partial cds
11813	24098	38279	2.21	8.0E-95	10864024	NT	Homo sapiens early growth response 2 (Krox-20) (Drosophila homolog) (EGR2), mRNA
12920	25442		29.02	8.0E-95	AA629056.1	EST_HUMAN	Homo sapiens HGF-binding transcription factor Zhuanglei (ZF), mRNA
							2004001.x1 Saccharin_basit_NHT Homo sapiens cDNA clone IMAGE:744849 3' similar to contains L1.11 L1
							repetitive element ;

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Table 4
Single Exon Probes Expressed in Bone Marrow

Pribe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
275	13371	26298	0.59	7.0E-95	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
275	13371	26299	0.59	7.0E-95	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4394	17422	30307	4.55	7.0E-95	M85708.1	NT	Homo sapiens Ly-6-like protein (CD59) mRNA, complete cds
4443	17469	30377	1.28	7.0E-95	A163248.2	NT	Homo sapiens chromosome 21 sequent HS21C046
5090	18100	30976	1	7.0E-95	M65929.3	NT	Human homeobox protein (PHOX1) mRNA, 3' end
6572	22534	33595	0.82	4.0E-95	BE439625.1	EST_HUMAN	HTM1-2B8F HTM1 Homo sapiens cDNA
12013	24980	38487	1.93	4.0E-95	AW950634.1	EST_HUMAN	EST3382704 MAGE resequenes, MAGA Homo sapiens cDNA
12013	24980	38488	1.93	4.0E-95	AW950634.1	EST_HUMAN	EST3382704 MAGE resequenes, MAGA Homo sapiens cDNA
12065	24938	38534	1.79	4.0E-95	BF371302.1	EST_HUMAN	RCS-FN0114-09J800-011-B07 FN0114 Homo sapiens cDNA
5517	18817	31560	0.61	3.0E-95	BF52604.1	EST_HUMAN	602071146T1 NCI CGAP Brn48 Homo sapiens cDNA clone IMAGE:4214147.5
5767	25844	32030	1.51	4.0E-95	4803354	EST_HUMAN	Homo sapiens dedicator of cyto-kinesis 1 (DOCK1) mRNA
7593	20554	33913	1	3.0E-95	AW98124.1	EST_HUMAN	EST370197 MAGE resequenes, MAGE Homo sapiens cDNA
7593	20554	33914	1	3.0E-95	AW98124.1	EST_HUMAN	EST370197 MAGE resequenes, MAGE Homo sapiens cDNA
9710	22963	36719	1.76	3.0E-95	7662289	NT	Homo sapiens KIAA0763 gene product [KIAA0763], mRNA
9710	22963	36720	1.75	3.0E-95	7662289	NT	Homo sapiens KIAA0763 gene product [KIAA0763], mRNA
10104	23030	36908	0.69	3.0E-95	BF213446.1	EST_HUMAN	601845212F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4070451.5
1651	14883	27856	2.18	2.0E-95	7662027	NT	Homo sapiens KIAA0235 gene product [KIAA0235], mRNA
1651	14883	27857	2.18	2.0E-95	7662027	NT	Homo sapiens KIAA0235 gene product [KIAA0235], mRNA
1651	14883	27857	2.18	2.0E-95	7662027	NT	Homo sapiens tissue inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy, pseudoinflammatory) (TIMP3) mRNA
1958	14980	27992	2.13	2.0E-95	4507512	EST_HUMAN	601321761FT NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3658662.5
1961	14983	27996	1.38	2.0E-95	BE363873.1	EST_HUMAN	Homo sapiens G protein-coupled receptor 19 (GPR19) mRNA
2433	15440	28457	1.43	2.0E-95	5453665	NT	Homo sapiens G protein-coupled receptor 19 (GPR19) mRNA
2433	15440	28458	1.43	2.0E-95	5453665	NT	Homo sapiens G protein-coupled receptor 19 (GPR19) mRNA
2433	15440	28459	1.43	2.0E-95	5453665	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2473	15477	28500	3.35	2.0E-95	AF240786.1	NT	Homo sapiens glycine cleavage system protein H (aminomethyl carrier) (GCSH) mRNA
2520	15523	28545	1.2	2.0E-95	4758423	NT	Homo sapiens gamma-gamma myosin-15 (LOC31169), mRNA
3171	16226	28142	2.48	2.0E-95	A015462.1	NT	Homo sapiens unconventional myosin-15 (LOC31169), mRNA
3577	16622	29342	2.93	2.0E-95	7705900	NT	Homo sapiens conventional myosin-15 (LOC31169), mRNA
3577	16622	29343	2.93	2.0E-95	7705900	NT	Homo sapiens conventional myosin-15 (LOC31169), mRNA
3631	16674	29697	0.93	2.0E-95	AB037807.1	NT	Homo sapiens RNA for KIAA1386 protein, partial cds qno02.k1 Scores_NIHIMP_u_S1 Homo sapiens cDNA clone IMAGE:1980546.3 similar to WP.T237.G.4 CE03705
3763	16805	29716	1.08	2.0E-95	A120284.1	EST_HUMAN	Homo sapiens hypothetical protein (HS322B1A), mRNA
4388	17416	30380	1.69	2.0E-95	7657165	NT	Homo sapiens KIAA0187 gene product [KIAA0187], mRNA
5077	18087	30967	2.92	2.0E-95	7661879	NT	Homo sapiens KIAA0187 gene product [KIAA0187], mRNA

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5557	18654	31588	4.36	2.0E-95	7705764	NT	Homo sapiens CGI-48 protein (LOC51096), mRNA
5557	18654	31589	4.36	2.0E-95	7705764	NT	Homo sapiens CGI-48 protein (LOC51096), mRNA
5782	18874	32055	1.22	2.0E-95	11225608	NT	Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA
5782	18874	32056	1.22	2.0E-95	11225608	NT	Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA
5827	18917	32101	0.67	2.0E-95	11525983	NT	Homo sapiens membrane protein, penicillinase 3 (MAGUK p55 subfamily member 3) (MP3), mRNA
6265	19338	32571	3.71	2.0E-95	M59724.1	NT	Human muscle-type phosphofructokinase (PFK-M) gene, exon 7
6592	19652	32923	1.01	2.0E-95	11427182	NT	Homo sapiens transcription factor 2, hepatic; LF-83; variant hepatic nuclear factor (TCF2), mRNA
6592	19652	32924	1.01	2.0E-95	11427182	NT	Homo sapiens transcription factor 2, hepatic; LF-83; variant hepatic nuclear factor (TCF2), mRNA
6722	19778	33057	2.39	2.0E-95	AF28737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9), mRNA, complete cds
6828	20152	33471	1.37	2.0E-95	11435773	NT	Homo sapiens huntingtin (Huntington disease) (HTD), mRNA
8498	22462	35603	2.51	2.0E-95	11431785	NT	Homo sapiens ribophorin II (RPN2), mRNA
10747	23669	37199	0.54	2.0E-95	11434330	NT	Homo sapiens KIAA1065 protein (KIAA1065), mRNA
11078	24040	37564	1.72	2.0E-95	4757853	NT	Homo sapiens bone morphogenetic protein receptor, type IA (BMPRI1A), mRNA
12011	24898	39484	2.35	2.0E-95	7682289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
12011	24898	39485	2.35	2.0E-95	7682289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
12587	25291	31792	2.69	2.0E-95	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12584	25546	31718	5.81	2.0E-95	11418164	NT	Homo sapiens adenylosuccinate lyase (ADSL), mRNA
5696	18791	31962	7.21	1.0E-95	AA284651.1	EST_HUMAN	Z23H04.11 Soares ovary tumor NHiOT Homo sapiens cDNA clone IMAGE:714007 5' similar to
5696	18791	31963	7.21	1.0E-95	AA284651.1	EST_HUMAN	Z23H04.11 Soares ovary tumor NHiOT Homo sapiens cDNA clone IMAGE:714007 5' similar to
7757	20710	34079	4.21	1.0E-95	BF370000.1	EST_HUMAN	RC6-FN0019-290600-011-G11 FN0019 Homo sapiens cDNA
7757	20710	34080	4.21	1.0E-95	BF370000.1	EST_HUMAN	RC6-FN0019-290600-011-G11 FN0019 Homo sapiens cDNA
8538	21504	34822	1.58	8.0E-96	BE897259.1	EST_HUMAN	601437232F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922423 5'
442	15840	26447	1.36	8.0E-96	BE907607.1	EST_HUMAN	601497608F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3896761 5'
442	15840	26448	1.36	8.0E-96	BE907607.1	EST_HUMAN	601497608F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3896761 5'
5599	18665	26882	2.28	8.0E-96	AW483047.1	EST_HUMAN	PMO-LT0019-090300-002-009 LT0019 Homo sapiens cDNA
3929	18969	26882	1.09	7.0E-96	AF231820.1	NT	Homo sapiens chromosome 21 unknown mRNA
3329	16390	26301	0.94	6.0E-96	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
3494	16541	29465	15.12	6.0E-96	M26873.1	NT	Human glyceraldehyde-3-phosphate dehydrogenase pseudogene 3'end
5722	18816	31895	0.82	6.0E-96	11422642	NT	Homo sapiens alanyltransferase 6 (N-acetylglucosaminidase alpha 2,3-sialyltransferase) (SIAT6), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11872	24754	38335	2.59	6.0E-96	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11872	24754	38336	2.59	6.0E-96	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11818	24789	38390	2.78	8.0E-96	8923839	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
320	13412	26336	3.08	5.0E-96	AB032988.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
843	13859	26855	3.47	5.0E-96	AB032988.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
843	13859	26856	3.47	5.0E-96	AB032988.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
2628	15625		1.23	5.0E-96	11416767	NT	Homo sapiens phosphodiesterase 8A, cGMP-specific, rod, alpha (PDE8A), mRNA
3039	15097	28013	0.71	5.0E-96	6912735	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
4940	17956		0.93	5.0E-96	X60812.1	NT	H. sapiens DNA for monomamine oxidase type A (7) (partial)
5233	18241	31113	0.93	5.0E-96	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
6807	19861	33148	1.15	5.0E-96	AF148773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
6870	19923	33218	0.5	5.0E-96	AI277557.1	NT	Homo sapiens dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
6949	20173	33466	4.02	5.0E-96	11424389	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
6949	20173	33497	4.02	5.0E-96	11424389	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
7219	20241	33576	0.78	5.0E-96	AB023177.1	NT	Homo sapiens mRNA for KIAA0660 protein, partial cds
7738	20711	34081	0.7	5.0E-96	AB024334.1	NT	Homo sapiens mRNA for 14-3-3gamma, complete cds
8443	21412	34825	6.11	5.0E-96	M68347.1	NT	Human type IV collagenase (CLG4B) gene, exon 5
8443	21412	34826	6.11	5.0E-96	M68347.1	NT	Human type IV collagenase (CLG4B) gene, exon 5
12076	26948	38543	1.51	5.0E-96	7661873	NT	Homo sapiens KIAA0175 gene product (KIAA0175), mRNA
4219	17248		7.1	3.0E-96	H68696.1	EST_HUMAN	Y67H12.11 Scores fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE-212327 5'
415	13488		4.66	2.0E-96	4503088	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
748	13809	26750	1.12	2.0E-96	AL163348.2	NT	Homo sapiens chromosome 21 segment HS21C048
748	13809	30700	1.39	2.0E-96	BE148074.1	EST_HUMAN	RC3-H10230-040500-110-g02 HT0260 Homo sapiens cDNA
7696	20654	34017	0.98	2.0E-96	BF369731.1	EST_HUMAN	QV4-GN0120-250600-427-512 GN0120 Homo sapiens cDNA
7696	20654	34018	0.98	2.0E-96	BF369731.1	EST_HUMAN	QV4-GN0120-250600-427-512 GN0120 Homo sapiens cDNA
8532	22287		5.83	2.0E-96	AV689481.1	EST_HUMAN	Y6689491 GKCC Homo sapiens cDNA clone GKOFMD07 5'
12285	25102		3.08	2.0E-96	AW249440.1	EST_HUMAN	2818351 SpRime NIH_MGC 7 Homo sapiens cDNA clone IMAGE2818351 5'
672	13738	26663	2.47	1.0E-96	Y18800.1	NT	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes
1796	14825	27809	2.35	1.0E-96	AV950504.1	EST_HUMAN	EST387124 IMAGE sequences, MAGC Homo sapiens cDNA
1796	14825	27810	2.35	1.0E-96	AV950504.1	EST_HUMAN	EST387124 IMAGE sequences, MAGC Homo sapiens cDNA
2237	18251	28274	1.04	1.0E-96	M75967.1	NT	Human hepatocyte growth factor gene, exon 1
2237	18251	28275	1.04	1.0E-96	M75967.1	NT	Human hepatocyte growth factor gene, exon 1
7158	18390	31724	1.15	1.0E-96	8912735	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7250	19985	33283	0.65	1.0E-96	6912456	NT	Homo sapiens guanine nucleotide exchange factor for Rap1 (KIAA0277), mRNA
8555	21523	34941	1.35	1.0E-96	7661803	NT	Homo sapiens HSPC144 protein (HSPC144), mRNA
8555	21523	34942	1.35	1.0E-96	7661803	NT	Homo sapiens HSPC144 protein (HSPC144), mRNA
9066	22032	35455	24.51	1.0E-96	11419428	NT	Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC83214), mRNA
9202	22106	35598	2.21	1.0E-96	AF274963.1	NT	Homo sapiens secretory pathway component Sec31B-1, mRNA, alternatively spliced, complete cds
10520	23442	36039	0.91	1.0E-96	AB033116.1	NT	Homo sapiens mRNA for KIAA1260 protein, partial cds
10520	23442	36940	0.91	1.0E-96	AB033116.1	NT	Homo sapiens mRNA for KIAA1260 protein, partial cds
12272	18332	31169	1.59	1.0E-96	4826663	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
12272	18332	31170	1.59	1.0E-96	4826663	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
3338	18386	26310	0.65	6.0E-97	BF245249.1	EST_HUMAN	Homo sapiens mRNA for KIAA1260 protein, partial cds
7006	20756	35682	3.82	6.0E-97	BE141849.1	EST_HUMAN	Homo sapiens mRNA for KIAA1260 protein, partial cds
9295	22552	35682	0.85	6.0E-97	BE369012.1	EST_HUMAN	Homo sapiens mRNA for KIAA1260 protein, partial cds
9295	22552	35683	0.85	6.0E-97	BE369012.1	EST_HUMAN	Homo sapiens mRNA for KIAA1260 protein, partial cds
10959	23879	37391	0.71	6.0E-97	AA320332.1	EST_HUMAN	Homo sapiens mRNA for KIAA1260 protein, partial cds
10959	23879	37392	0.71	6.0E-97	AA320332.1	EST_HUMAN	Homo sapiens mRNA for KIAA1260 protein, partial cds
11734	24620	38198	3.43	6.0E-97	X15804.1	EST_HUMAN	Homo sapiens mRNA for KIAA1260 protein, partial cds
8348	21317	34732	2.27	5.0E-97	AL043314.2	EST_HUMAN	Homo sapiens mRNA for KIAA1260 protein, partial cds
8482	21450	34668	13.95	5.0E-97	AA418026.1	EST_HUMAN	Homo sapiens mRNA for KIAA1260 protein, partial cds
10034	22961	36426	2.61	5.0E-97	BF154912.1	EST_HUMAN	Homo sapiens mRNA for KIAA1260 protein, partial cds
11973	24758	36337	1.75	5.0E-97	BE148597.1	EST_HUMAN	Homo sapiens mRNA for KIAA1260 protein, partial cds
11973	24758	36338	1.75	5.0E-97	BE148597.1	EST_HUMAN	Homo sapiens mRNA for KIAA1260 protein, partial cds
935	13991	26943	2.4	4.0E-97	BE004436.1	EST_HUMAN	Homo sapiens mRNA for KIAA1260 protein, partial cds
948	14001	26953	1.87	4.0E-97	AB030178.1	NT	Homo sapiens mRNA for KIAA1260 protein, partial cds
948	14001	26954	1.87	4.0E-97	AB030178.1	NT	Homo sapiens mRNA for KIAA1260 protein, partial cds
1625	14949	27945	0.99	4.0E-97	5455572	NT	Homo sapiens mRNA for KIAA1260 protein, partial cds
5845	18741	31906	0.98	4.0E-97	4557326	NT	Homo sapiens mRNA for KIAA1260 protein, partial cds
5956	19041	32239	0.52	4.0E-97	U08002.1	NT	Homo sapiens mRNA for KIAA1260 protein, partial cds
5956	19041	32240	0.52	4.0E-97	U08002.1	NT	Homo sapiens mRNA for KIAA1260 protein, partial cds
6897	20123	33437	5.9	4.0E-97	Y11339.2	NT	Homo sapiens mRNA for KIAA1260 protein, partial cds
6997	20123	33438	5.9	4.0E-97	Y11339.2	NT	Homo sapiens mRNA for KIAA1260 protein, partial cds
7217	20239	33573	1.35	4.0E-97	7710125	NT	Homo sapiens mRNA for KIAA1260 protein, partial cds

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7270	20005	33305	0.84	4.0E-07	11422155	NT	Homo sapiens cystic fibrosis transmembrane conductance regulator, ATP-binding cassette (sub-family C, member 7) (CFTR), mRNA
8474	21443	34680	0.58	4.0E-07	4557708	NT	Homo sapiens laminin, alpha 2 (metho, congenital muscular dystrophy) (LAMA2), mRNA
8701	21689	35092	1.62	4.0E-07	11421793	NT	Homo sapiens Y-sc aryan sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (SRC), mRNA
8926	21892	35320	0.49	4.0E-07	11431060	NT	Homo sapiens N-myc (and STAT) interactor (NMI), mRNA
8967	21933	35358	0.78	4.0E-07	11423233	NT	Homo sapiens cytochrome P450, subfamily IVB, polypeptide 1 (CYP4B1), mRNA
8983	22807	36056	1.36	4.0E-07	AB011168.1	NT	Homo sapiens mRNA for KIAA0594 protein, partial cds
8983	22807	36057	1.36	4.0E-07	AB011168.1	NT	Homo sapiens mRNA for KIAA0594 protein, partial cds
10803	23724	37226	0.79	4.0E-07	11431060	NT	Homo sapiens N-myc (and STAT) interactor (NMI), mRNA
11498	24441	37691	2.15	4.0E-07	11863122	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), transcript variant 1, mRNA
11498	24441	37692	2.15	4.0E-07	11863122	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), transcript variant 1, mRNA
12467	25216	37692	7.99	4.0E-07	11418318	NT	Homo sapiens G-2 and S-phase expressed 1 (GTS1), mRNA
243	13541	26286	1.01	3.0E-07	AB032968.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
875	13931	26889	2.71	3.0E-07	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
875	13931	26890	2.71	3.0E-07	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
1435	15988	27446	1.72	3.0E-07	4758813	NT	Homo sapiens N-myc (and STAT) interactor (NMI), mRNA
2445	16825	28470	1.57	3.0E-07	U36285.1	NT	Human beta-prime-apapin (BAM22) gene, exon 7
3185	16240	29158	2.22	3.0E-07	K02212.1	NT	Human alpha-1-antitrypsin gene (S variant), complete cds
3274	16328	29249	1.01	3.0E-07	5174478	NT	Homo sapiens pericentriolar (PONT) mRNA
4815	17832	30730	18.15	1.0E-07	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1), mRNA
6567	18627	32892	2.5	1.0E-07	BE369486.1	EST_HUMAN	801339520F1 NIH MGCC 83 Homo sapiens cDNA clone IMAGE:3681821 5'
9799	21122	34525	0.51	1.0E-07	AW378976.1	EST_HUMAN	RQ0-H10258-211189-011-g05 H10258 Homo sapiens cDNA
9799	21122	34526	0.51	1.0E-07	AW378976.1	EST_HUMAN	RQ0-H10258-211189-011-g05 H10258 Homo sapiens cDNA
10122	23048	36327	1.46	1.0E-07	R10887.1	EST_HUMAN	y38c08 t1 Soares fetal liver spleen INF-LS Homo sapiens cDNA clone IMAGE:129134 3'
11062	24035	37449	3.07	1.0E-07	11427757	NT	Homo sapiens KIAA0849 gene product (KIAA0849), mRNA
11062	24035	37450	3.07	1.0E-07	11427757	NT	Homo sapiens KIAA0849 gene product (KIAA0849), mRNA
11639	24258	38142	1.87	1.0E-07	AA653761.1	EST_HUMAN	nc28025 t1 NC1_CGAP_Cot11 Homo sapiens cDNA clone IMAGE:1014982 3'
11796	23951	37472	35.59	1.0E-07	11426272	NT	Homo sapiens ribosomal protein S16 (RPS16), mRNA
11796	23951	37473	35.59	1.0E-07	11426272	NT	Homo sapiens ribosomal protein S16 (RPS16), mRNA
902	13957	26914	1.43	9.0E-08	BE090973.1	EST_HUMAN	PM4-B10724-010400-005-a12 B10724 Homo sapiens cDNA
1281	14316	27278	2.02	9.0E-08	8363002	NT	Homo sapiens cat eye syndrome critical region gene 1 (CECR1), mRNA
6435	19501		0.63	9.0E-08	AL250713.1	NT	Homo sapiens CLDN12 gene for claudin-12

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7507	20472	33932	0.55	9.0E-98	7651871	NT	Homo sapiens leucyl-tRNA synthetase, mitochondrial (KIAA0028), mRNA
7617	20577	33940	0.56	9.0E-98	11419408	NT	Homo sapiens A kinase (PRKA) anchor protein (yotiao) 9 (AKAP9), mRNA
8257	21226	34636	5.5	9.0E-98	4758119	NT	Homo sapiens death-associated protein (DAP), mRNA
8257	21226	34637	5.5	9.0E-98	4758119	NT	Homo sapiens death-associated protein (DAP), mRNA
9471	22435	35837	2.01	9.0E-98	X05989.1	NT	Human mRNA for amyloid A4(751) protein
9579	22541	35891	1.44	9.0E-98	11321580	NT	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
9647	22591	36040	1.49	9.0E-98	AB037786.1	NT	Homo sapiens mRNA for KIAA1365 protein, partial cds
9694	22647		0.83	9.0E-98	AF057726.1	NT	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, exon 8
9722	22750	36202	1.19	9.0E-98	4507070	NT	Homo sapiens SVI/ISNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 3 (SMARCA3) mRNA
9722	22750	36203	1.16	9.0E-98	4507070	NT	Homo sapiens SVI/ISNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 3 (SMARCA3) mRNA
10623	23546	37045	0.5	9.0E-98	AF141325.2	NT	Homo sapiens inositol polyphosphate 1-phosphatase (INPP1) gene, complete cds
11346	24296	37823	2.05	9.0E-98	AB023222.1	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
11346	24296	37824	2.05	9.0E-98	AB023222.1	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
11407	24351	37883	1.75	9.0E-98	11418682	NT	Homo sapiens mitogen-activated protein kinase kinase 7 (MAP3K7), mRNA
26	13148		2.24	8.0E-98	AJ251198.1	NT	Homo sapiens partial MCB gene for MHC class I chain-related protein B, exons 2-3 and joined CDS
1562	14594	27568	1.49	8.0E-98	5031810	NT	Homo sapiens IL2-inducible T-cell kinase (ITK), mRNA
1562	14594	27569	1.49	8.0E-98	5031810	NT	Homo sapiens IL2-inducible T-cell kinase (ITK), mRNA
1739	14769	27754	2.73	8.0E-98	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
1739	14769	27755	2.73	8.0E-98	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
3607	16652	29568	0.97	8.0E-98	AJ228041.1	NT	Homo sapiens 959 kb contig between AML1 and CBRT on chromosome 21q22; segment 173
3607	16652	29570	0.97	8.0E-98	AJ228041.1	NT	Homo sapiens 959 kb contig between AML1 and CBRT on chromosome 21q22; segment 173
3809	18849	29757	6.45	8.0E-98	J044469.1	NT	Human mitochondrial creatine kinase (CKMT) gene, complete cds
6201	19275	32508	2.74	5.0E-98	BE885973.1	EST_HUMAN	601507503F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3005007 5'
2188	15203	28223	1.23	3.0E-98	AJ403124.1	EST_HUMAN	AJ403124.3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone 18
2616	16514	28639	1.19	3.0E-98	AB014607.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
2798	16751		3.63	3.0E-98	AA077498.1	EST_HUMAN	7B18H01 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B18H01
7131	20107	33418	0.7	3.0E-98	9968648	EST	Homo sapiens chromosome 12 open reading frame 4 (G12ORF4), mRNA
7134	20110	33422	1.63	3.0E-98	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
7134	20110	33423	1.63	3.0E-98	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
9104	22070	35496	3.59	3.0E-98	H46698.1	EST_HUMAN	yot17g09.1 Scores adult brain N265HB55Y Homo sapiens cDNA clone IMAGE:176240 5'
9632	22595	35043	0.65	3.0E-98	8922098	NT	Homo sapiens uncharacterized bone marrow protein BM036 (BM039), mRNA

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORT-SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10243	23168	36655	1.51	3.0E-98	AJ403124.1	EST_HUMAN	AJ403124.3,4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone l8
10243	23168	36656	1.51	3.0E-98	AJ403124.1	EST_HUMAN	AJ403124.3,4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone l8
10539	23759	37259	0.89	3.0E-98	BE900454.1	EST_HUMAN	601673686F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:356517 5'
11299	24249	37775	2.09	3.0E-98	U95309.1	NT	Human fumase precursor (FH) mRNA, nuclear gene encoding mitochondrial protein, complete cds
12951	25935		1.4	3.0E-98	BE382519.1	EST_HUMAN	601297955F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3628213 5'
13039	25591		2.4	3.0E-98	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
737	13798	26737	0.94	2.0E-98	BE291894.1	EST_HUMAN	601149485F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502245 5'
2092	15109	28128	3.36	2.0E-98	BE294281.1	EST_HUMAN	601172688F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3528134 5'
2247	15281	28288	1.49	2.0E-98	AL163202.2	NT	Homo sapiens chromosome 21 segment HSR21C902
4325	17354	30240	0.75	2.0E-98	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
4368	17395	30274	2.9	2.0E-98	4788331	NT	Homo sapiens fatty acid Coenzyme A ligase, long-chain 4 (FACL4) mRNA
4864	17861	30767	1.22	2.0E-98	AF218902.1	NT	Homo sapiens attractin precursor (ATTRN) gene, exon 16
4864	17861	30768	1.22	2.0E-98	AF218902.1	NT	Homo sapiens attractin precursor (ATTRN) gene, exon 16
5450	18552	31464	4.26	2.0E-98	7705512	NT	Homo sapiens PDZ domain-containing guanine nucleotide exchange factor 1 (LOC51735), mRNA
8811	19655	33153	1.09	2.0E-98	4505798	NT	Homo sapiens phosphatidylinositol 3-kinase, class 2, alpha polypeptide (PIK3C2A) mRNA
7885	20829	34206	1.08	2.0E-98	11431271	NT	Homo sapiens hypothetical protein FLJ10488 (FLJ10488), mRNA
7885	20829	34207	1.08	2.0E-98	11431271	NT	Homo sapiens hypothetical protein FLJ10488 (FLJ10488), mRNA
8955	21921	35347	3.8	2.0E-98	11428513	NT	Homo sapiens SH3-domain GRB2-like 2 (SH3GL2), mRNA
8955	21921	35348	3.8	2.0E-98	11428513	NT	Homo sapiens SH3-domain GRB2-like 2 (SH3GL2), mRNA
9039	22005	35425	0.57	2.0E-98	L76566.1	NT	Homo sapiens NKAT4b mRNA, complete cds
9039	22005	35426	0.57	2.0E-98	L76566.1	NT	Homo sapiens NKAT4b mRNA, complete cds
8895	22848	36305	2.7	2.0E-98	X12844.1	NT	Homo sapiens arginase gene exon 3 (EC 3.5.3.1)
10778	23698		1.25	2.0E-98	7705868	NT	Homo sapiens AIMP-1 protein (LOC51181), mRNA
11942	24822	38418	1.56	2.0E-98	AF273046.1	NT	Homo sapiens CTCL tumor antigen es20-9 mRNA, complete cds
405	13478	26413	23.04	1.0E-98	A1862007.1	EST_HUMAN	W638P04.X1 NCI CGAP Lit Homo sapiens cDNA clone IMAGE:2261743 3' similar to SW-RL2B_HUMAN
455	13528	26458	2.12	1.0E-98	AW98851.1	EST_HUMAN	P28318.60S RIBOSOMAL PROTEIN L23A ;
1813	14840	27831	13.58	1.0E-98	N49818.1	EST_HUMAN	PMO-BN0058-100300-001-036 BN0055 Homo sapiens cDNA
5390	18493	31370	3.54	1.0E-98	AA195854.1	EST_HUMAN	P28318.60S RIBOSOMAL PROTEIN L23A ;
5949	18745	31912	1.07	1.0E-98	BE390627.1	EST_HUMAN	PIR:S54204 S54204 ribosomal protein L29 - human ;
5949	18745	31913	1.07	1.0E-98	BE390627.1	EST_HUMAN	z98569.9.1 Striatogene muscle 937209 Homo sapiens cDNA clone IMAGE:928240 5' similar to TR:G906592
							G906592 NEBULIN ;
							60128-088F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3606892 5'
							60128-088F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3606892 5'

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9330	22315	35740	5.26	1.0E-08	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
9330	22315	35741	5.26	1.0E-08	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
5917	19003	32195	0.84	9.0E-09	AI905004.1	EST_HUMAN	QV-BT073-191288-Q12 BT073 Homo sapiens cDNA
5917	19003	32196	0.84	9.0E-09	AI905004.1	EST_HUMAN	QV-BT073-191288-Q12 BT073 Homo sapiens cDNA
6158	19233	32465	3.77	9.0E-09	AW686835.1	EST_HUMAN	EST1380771 MAGE sequences, MAGU Homo sapiens cDNA
114556	24399	37946	3.71	9.0E-09	AI476829.1	EST_HUMAN	trf59107.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2183421 3' similar to SW-BID_HUMAN
114556	24399	37947	3.71	9.0E-09	AI476829.1	EST_HUMAN	P55657 BH3 INTERACTING DOMAIN DEATH AGONIST ;
11460	24403	37951	2.19	9.0E-09	BF359676.1	EST_HUMAN	P55657 BH3 INTERACTING DOMAIN DEATH AGONIST ;
11743	24628	38207	1.84	9.0E-09	AA134604.1	EST_HUMAN	PM2-MT0037-250700-003-G04 MT0037 Homo sapiens cDNA
9078	22044	35467	1.18	8.0E-09	9635487	NT	zr90402.1 Stralagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:565443 5' similar to
5933	19019	32214	9.72	7.0E-09	AF035808.1	NT	TR-G662894 G662894 GPI-ANCHORED PROTEIN P137 ;
11933	24814	38410	1.99	7.0E-09	AF001898.1	NT	Human endogenous retrovirus, complete genome
472	13544	26473	0.84	6.0E-09	U10991.1	NT	Homo sapiens occludin (ILK) gene, exon 5
4779	17769	30690	0.97	6.0E-09	4502693	NT	Homo sapiens NK-receptor (KIR-G2) gene, linker region exon
6752	19806	33087	0.98	6.0E-09	7706136	NT	Human G2 protein mRNA, partial cds
5835	19888	33182	0.81	6.0E-09	43610.1	NT	Homo sapiens CD34 antigen (CD34) mRNA
6835	19888	33183	0.81	6.0E-09	43610.1	NT	Homo sapiens GAP-like protein (LOC51308) mRNA
8441	21410	34823	1.06	6.0E-09	X69101.1	NT	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30
8440	21429	34846	0.52	6.0E-09	68071589	NT	H. sapiens mRNA for estrogen receptor
9117	22083	35511	2.24	6.0E-09	AB036426.1	NT	Homo sapiens NDS14 mRNA for N-deacetylase/N-sulfotransferase 4, complete cds
9215	22181	35612	3.79	6.0E-09	AF080255.1	NT	Homo sapiens lisdeter protein mRNA, complete cds
9215	22181	35613	3.79	6.0E-09	AF080255.1	NT	Homo sapiens lisdeter protein mRNA, complete cds
9275	22241	35659	0.84	6.0E-09	11431994	NT	Homo sapiens inositol 1,4,5-trisphosphate receptor, type 1 (ITPR1), mRNA
9275	22241	35670	0.84	6.0E-09	11431994	NT	Homo sapiens inositol 1,4,5-trisphosphate receptor, type 1 (ITPR1), mRNA
11074	24036	37560	3.32	6.0E-09	11526299	NT	Homo sapiens BH3 Interacting domain death agonist (BID), mRNA
11763	23938	37459	1.88	6.0E-09	9910279	NT	Homo sapiens UDP-glucose:glycoprotein glucosyltransferase 1 (HUGT1), mRNA
11763	23938	37460	1.98	6.0E-09	9910279	NT	Homo sapiens UDP-glucose:glycoprotein glucosyltransferase 1 (HUGT1), mRNA
1982	15003	28005	1.37	5.0E-09	Y11395.1	NT	H. sapiens IMPA gene, exon 8
4586	17617	30511	1.46	5.0E-09	AF006980.1	NT	H. sapiens IMPA gene, exon 8
12468	26238		5.2	5.0E-09	BE690177.1	EST_HUMAN	901513157F1 NIH MGCC 71 Homo sapiens cDNA clone IMAGE:3914391 5'
8864	21632		5.74	3.0E-09	M95588.1	NT	Human E2A/HLA fusion protein (E2AHLF) mRNA, complete cds

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Probe SEQ ID NO:	Exon ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1244	14281		16.34	2.0E-99	AW274792.1	EST_HUMAN	xp00606.11 NC1 CGAP H19 Homo sapiens cDNA clone IMAGE:2739874.3 similar to gb:M31212 MYOSIN LIGHT CHAIN ALKALI NON-MUSCLE ISOFORM (HUMAN);
3372	16326	26248	1.19	2.0E-99	M30938.1	NT	Human Ku (p70p80) subunit mRNA, complete cds
4574	17566	30490	1.95	2.0E-99	AF095703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
7636	20878	34268	0.67	2.0E-99	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
9055	22021	35448	12.17	2.0E-99	W23507.1	EST_HUMAN	Z640606.1 Sources: fetal lung, NHL19W Homo sapiens cDNA clone IMAGE:306835.5 similar to gb:M15182 BETA-GLUCURONIDASE PRECURSOR (HUMAN);
9507	22470	35914	0.65	2.0E-99	R78254.1	EST_HUMAN	y81059.1 Sources: placenta NB2HP Homo sapiens cDNA clone IMAGE:145925.5
11440	24383	37923	2.59	2.0E-99	AF247457.2	NT	Homo sapiens myosin X (MYO10) mRNA, complete cds
315	13407	26333	1.5	1.0E-99	AF114487.1	NT	Homo sapiens interaetin long isoform (ITSN) mRNA, complete cds
379	13463	26393	1.04	1.0E-99	U1526150	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (80kD) (GABPA), mRNA
1419	14452	27428	1.98	1.0E-99	M30938.1	NT	Human Ku (p70p80) subunit mRNA, complete cds
1559	14591	27563	1.52	1.0E-99	AF192523.1	NT	Homo sapiens truncated Niemann-Pick C3 protein (NPC3) mRNA, complete cds
1559	14591	27564	1.52	1.0E-99	AF192523.1	NT	Homo sapiens truncated Niemann-Pick C3 protein (NPC3) mRNA, complete cds
1944	14968	27965	1.18	1.0E-99	4503730	NT	Homo sapiens FK506-binding protein 6 (38kD) (FKBP6) mRNA, and translated products
1944	14968	27966	1.18	1.0E-99	4503730	NT	Homo sapiens FK506-binding protein 6 (38kD) (FKBP6) mRNA, and translated products
3101	16158	29070	1.6	1.0E-99	J03171.1	NT	Human interferon-alpha receptor (HuIFN-alpha-R) mRNA, complete cds
4407	17435	30320	2.29	1.0E-99	AF098018.1	NT	Homo sapiens fatty acid amide hydrolase (FAAH) gene, exon 14
4407	17435	30321	2.29	1.0E-99	AF098018.1	NT	Homo sapiens fatty acid amide hydrolase (FAAH) gene, exon 14
5836	18926	32110	0.59	1.0E-99	7662349	NT	Homo sapiens cell recognition molecule Casp2 (KIAA0898), mRNA
6976	20199	33528	1.77	1.0E-99	U1421007	NT	Homo sapiens glycine receptor, alpha 2 (GLRA2), mRNA
8976	20199	33529	1.77	1.0E-99	U1421007	NT	Homo sapiens glycine receptor, alpha 2 (GLRA2), mRNA
7346	25980	33662	0.61	1.0E-99	X98022.1	NT	H sapiens EG-AP gene exon 2
8654	22616		0.89	1.0E-99	U1419721	NT	Homo sapiens ALEX1 protein (LOC51309), mRNA
9876	22831	36285	1.99	1.0E-99	AW340174.1	EST_HUMAN	h002b02.v1 Sources: NFL, T, GBC, S1 Homo sapiens cDNA clone IMAGE:2008371.3 similar to TFC02711
11473	24418	37965	1.89	1.0E-99	7427514	NT	O02711 PRO-POL-DUTPASE POLYPROTEIN ;
11473	24418	37966	1.89	1.0E-99	7427514	NT	Homo sapiens huntingtin interacting protein 1 (H1PT), mRNA
11705	24670	38247	2.17	1.0E-99	A3023222.1	NT	Homo sapiens huntingtin interacting protein 1 (H1PT), mRNA
12253	25079		9.09	1.0E-99	AF240786.1	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
1	13123	26021	1.83	1.0E-100	AL163247.2	NT	Homo sapiens glutathione S-transferase theta 1 (GSTT1) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2	13123	26021	1.83	1.0E-100	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
1	13123	26021	1.19	1.0E-100	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
69	13187	26105	1.3	1.0E-100	11418230	NT	Homo sapiens Testis-specific XK-related protein on Y (XKRY), mRNA
69	13187	26106	1.3	1.0E-100	11418230	NT	Homo sapiens Testis-specific XK-related protein on Y (XKRY), mRNA
87	13203	26128	0.87	1.0E-100/AJ275237.1	EST_HUMAN		XI78011X1 NCI CGAP_Bim63 Homo sapiens cDNA clone IMAGE:2824603 3'
170	13272	26197	2.52	1.0E-100/AL169206.2	NT		Homo sapiens chromosome 21 segment HS21C006
317	13409	26335	0.96	1.0E-100/AL163249.2	NT		Homo sapiens chromosome 21 segment HS21C049
343	13432	26354	2.63	1.0E-100/T06087.1	EST_HUMAN		EST102075 Fetal brain, Striatum (ca1836200) Homo sapiens cDNA clone HFBCE32
437	13511		2.36	1.0E-100/AF003528.1	NT		Homo sapiens X-linked antihidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
490	13563		4.8	1.0E-100/X88631.1	NT		G, garilla DNA for ZNF80 gene homolog
510	13581	26502	1.4	1.0E-100/BE180609.1	EST_HUMAN		RC3-H10625-040500-022-509 HT0025 Homo sapiens cDNA
1021	14067	27017	4.33	1.0E-100	7661685	NT	Homo sapiens DKFZP588M0122 protein (DKFZP588M0122), mRNA
1021	14067	27018	4.33	1.0E-100	7661685	NT	Homo sapiens DKFZP588M0122 protein (DKFZP588M0122), mRNA
1549	14582		1.23	1.0E-100/AJ207555.1	EST_HUMAN		UH-HB1-afk-c-07-Q-UI st NCI CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722184 3'
1554	14586	27558					qf0209.x1 Soares, testis_NHT Homo sapiens cDNA clone IMAGE:1754633 3' similar to SW_COT1A
1881	14908	27806	0.98	1.0E-100/AJ200857.1	EST_HUMAN		P81081 CYSTATIN 1
2254	15268		1.25	1.0E-100/D83349.1	NT		Homo sapiens mRNA for KIAA1168 protein, partial cds
2717	15711	28728	1.98	1.0E-100	11418978	NT	Ref mRNA for short type PB-cadherin, complete cds
3031	16089		3.1	1.0E-100/D11078.1	NT		Homo sapiens KIAA0957 protein (KIAA0957), mRNA
4238	17267	30154	1.46	1.0E-100/AF057354.1	NT		Homo sapiens RGH2 gene, retrovirus-like element
4284	17283	30172	1.94	1.0E-100/AF057354.1	NT		Homo sapiens myotubularin-related protein 1a mRNA, partial cds
5127	18138	31012	3.58	1.0E-100	4503742	NT	Homo sapiens follicle stimulating hormone receptor (FSHR) mRNA
5127	18138	31013	3.58	1.0E-100	5032104	NT	Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA
5362	18467	31338	1.71	1.0E-100/BF244218.1	EST_HUMAN		Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA
5362	18467	31338	1.71	1.0E-100/BF244218.1	EST_HUMAN		801803164FT NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4080899 5'
5596	18682	31650	0.66	1.0E-100/AJ0075983.1	EST_HUMAN		xb8201.x1 NCI CGAP_CML1 Homo sapiens cDNA clone IMAGE:2573305 3' similar to gp.X12433
5785	18877	32058	1.5	1.0E-100/AJ116162.1	EST_HUMAN		PROTEIN PHPS1-2 (HUMAN)
5839	18929	32113	0.29	1.0E-100/AJ116162.1	EST_HUMAN		AU118182 HEMBA1 Homo sapiens cDNA clone HEMBA103046 5'
5937	19023	32217	0.9	1.0E-100/X14690.1	NT		Homo sapiens ER-E2-related factor 3 gene, complete cds
6287	19359	32595	0.89	1.0E-100	4557568	NT	Human mRNA for plasma inter-alpha-1-trypsin inhibitor heavy chain H(3)
6287	19359	32596	0.89	1.0E-100	4557568	NT	Homo sapiens ER to nucleus signalling 1 (ERN1) mRNA
6578	19536		1.1	1.0E-100	5729867	NT	Homo sapiens ER to nucleus signalling 1 (ERN1) mRNA
6846	19703	32879	4.85	1.0E-100/AJ140214.1	EST_HUMAN		Homo sapiens ER to nucleus signalling 1 (ERN1) mRNA
6704	19760	33036	0.61	1.0E-100/AJ138900.1	EST_HUMAN		AU140214 PLACE2 Homo sapiens cDNA clone PLACE2000137 5'
							AU138900 PLACE1 Homo sapiens cDNA clone PLACE1005088 5'

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Probe SEQ ID NO:	Exon ID NO:	ORF-SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6843	19896	33190	1.35	1.0E-100	R10887.1	EST_HUMAN	yf3c08.a1 Soares fetal liver spleen 1N1LS Homo sapiens cDNA clone IMAGE:129134 3'
6834	20156	33478	1.08	1.0E-100	7382470	NT	Homo sapiens Rho GTPase activating protein 6 (ARHGAP6), transcript variant 4, mRNA
7019	20145	33462	0.96	1.0E-100	AA468841.1	EST_HUMAN	ac33048.t1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:887587 5' similar to TR:G487418
7019	20145	33463	0.96	1.0E-100	AA468841.1	EST_HUMAN	G487418 ACTIN FILAMENT-ASSOCIATED PROTEIN. ;
7070	20092	33401	1.12	1.0E-100	BF376478.1	EST_HUMAN	ae33068.r1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:887587 5' similar to TR:G487418
7070	20092	33402	1.12	1.0E-100	BF376478.1	EST_HUMAN	G487418 ACTIN FILAMENT-ASSOCIATED PROTEIN. ;
7078	20069	33470	6.82	1.0E-100	X04571.1	NT	Human mRNA for kidney epithelial growth factor (EGF) precursor
7990	20829	34323	0.52	1.0E-100	U63139.1	NT	Homo sapiens Rad50 (Rad50) mRNA, complete cds
7990	20829	34324	0.52	1.0E-100	U63139.1	NT	Homo sapiens Rad50 (Rad50) mRNA, complete cds
8877	21844	35266	11.86	1.0E-100	BF103653.1	EST_HUMAN	601647357F1 NIH_MGC_61 Homo sapiens cDNA clone IMAGE:3931310 5'
8914	21880		5.3	1.0E-100	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
9368	22333	35763	0.59	1.0E-100	AU116951.1	EST_HUMAN	AU116951 HEMBA1 Homo sapiens cDNA clone HEMBA1000343 5'
9368	22333	35764	0.59	1.0E-100	AU116951.1	EST_HUMAN	AU116951 HEMBA1 Homo sapiens cDNA clone HEMBA1000343 5'
9588	22550	36001	3.34	1.0E-100	AB040918.1	NT	Homo sapiens mRNA for KIAA1465 protein, partial cds
9665	22822		2.44	1.0E-100	A1972388.1	EST_HUMAN	MEI22 repetitive element ;
9788	21111	34511	2.04	1.0E-100	AW698611.1	EST_HUMAN	PIMA-BN0085-100300-001-c08 BN0085 Homo sapiens cDNA
9842	22778		1.06	1.0E-100	AU12720.1	EST_HUMAN	AU12720 NT2RP2 Homo sapiens cDNA clone NT2RP2001918 5'
9842	22869	36331	2.29	1.0E-100	AB046846.1	NT	Homo sapiens mRNA for KIAA1628 protein, partial cds
9842	22869	36332	2.26	1.0E-100	AB046846.1	NT	Homo sapiens mRNA for KIAA1628 protein, partial cds
10293	23128	36614	1.47	1.0E-100	AW630487.1	EST_HUMAN	h183c11.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2983095 5'
10293	23128	36615	1.47	1.0E-100	AW630487.1	EST_HUMAN	h183c11.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2983095 5'
10364	23287	36764	0.46	1.0E-100	AV732101.1	EST_HUMAN	AV732101 HTF Homo sapiens cDNA clone HTFBI001 5'
10364	23287	36765	1.94	1.0E-100	BF347519.1	EST_HUMAN	602020564F1 NCI_CGAP_Bim67 Homo sapiens cDNA clone IMAGE:4156165 5'
10824	23844		1.56	1.0E-100	Y10391.1	NT	Human endogenous retrovirus HERV-K, pol gene
11111	24071	37588	7.51	1.0E-100	BF327262.1	EST_HUMAN	MRG-BN0070-270300-008-H11 BN0070 Homo sapiens cDNA
11618	24566	38118	1.78	1.0E-100	X94633.1	NT	H.sapiens CD97 gene exon 4
11618	24566	38119	1.78	1.0E-100	X94633.1	NT	H.sapiens CD97 gene exon 4
11681	24647	38223	3.57	1.0E-100	AF111170.3	NT	Homo sapiens 14q32 jagged2 gene, complete cds; and unknown gene
11681	24647	38224	3.57	1.0E-100	AF111170.3	NT	Homo sapiens 14q32 jagged2 gene, complete cds; and unknown gene
11712	13123	28021	1.96	1.0E-100	AF163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
11989	24866		2	1.0E-100	AF266285.1	NT	Homo sapiens golgin-like protein (GLP) gene, complete cds

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12127	24996	38600	3.03	1.0E-100	AJ131034.1	NT	Homo sapiens olase gene, exon 12
12128	24997	38601	1.05	1.0E-100	BE791491.1	EST_HUMAN	001589031F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3840423 5'
12177	25025	38622	15.03	1.0E-100	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12207	25851		2.32	1.0E-100	BF446546.1	EST_HUMAN	7688103.X1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3' similar to TR-Q21987 Q21987
12488	25233	31789	2.58	1.0E-100	11545732	NT	COXND1 R151; [2] TR-Q9A08;
13084	25615	31691	8.6	1.0E-100	11417974	NT	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA
78	13195	28118	1.19	1.0E-101	7110714	NT	Homo sapiens transcobalamin II; macrocytic anemia (TON2), mRNA
78	13195	28118	1.19	1.0E-101	7110714	NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
78	13195	28119	1.19	1.0E-101	7110714	NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
687	13750	28676	2.53	1.0E-101	AB007915.2	NT	Homo sapiens mRNA for KIAA0446 protein, partial cds
705	13767	28702	6.85	1.0E-101	7110734	NT	Homo sapiens ventral anterior homeobox 2 (VAX2), mRNA
705	13767	28703	6.85	1.0E-101	7110734	NT	Homo sapiens ventral anterior homeobox 2 (VAX2), mRNA
772	13831	28776	1.48	1.0E-101	7687454	NT	Homo sapiens pascadillo (zabrafish) homolog 1, containing BRCT domain (PES1), mRNA
854	13910	28868	2.88	1.0E-101	4503914	NT	Homo sapiens phosphoribosylpyrimidine formyltransferase, phosphoribosylglycanamide synthetase, phosphoribosylaminimidazole synthetase (GART), mRNA
924	13977	28928	1.22	1.0E-101	Z20656.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
987	14038	28994	7.23	1.0E-101	BF681218.1	EST_HUMAN	602158474F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4287281 5'
1055	14101	27051	0.78	1.0E-101	A1221878.1	EST_HUMAN	q996a09.X1 Soares, NFL, T, GBC S1 Homo sapiens cDNA clone IMAGE:1843336 3'
1586	14619	27594	1.34	1.0E-101	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1586	14619	27595	1.34	1.0E-101	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1781	14790	27777	1.12	1.0E-101	7682183	NT	Homo sapiens KIAA0589 gene product (KIAA0589), mRNA
1781	14790	27777	1.12	1.0E-101	7682183	NT	Homo sapiens KIAA0589 gene product (KIAA0589), mRNA
1982	14934	27957	1.58	1.0E-101	4502996	NT	Homo sapiens carboxypeptidase A1 (pancreatic) (CPA1), mRNA
2072	15089	28107	1.07	1.0E-101	BE843070.1	EST_HUMAN	RC3-ST0281-160600-016.h09 ST0281 Homo sapiens cDNA
2257	15891	28387	1.17	1.0E-101	5729892	NT	Homo sapiens A kinase (PRKA) anchor protein 6 (AKAP6), mRNA
2622	15921	28648	5.3	1.0E-101	X72983.1	NT	H. sapiens EWS gene, exon 5
2753	15748	28763	2.07	1.0E-101	AJ237744.1	NT	Homo sapiens RIBLIR gene (partial), exon 12
2753	15748	28764	2.07	1.0E-101	AJ237744.1	NT	Homo sapiens RIBLIR gene (partial), exon 12
2867	18025		13.42	1.0E-101	AJ252312.1	NT	Homo sapiens genomic downstream Rhesus box
3216	18271	29194	1.69	1.0E-101	4885270	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA
3295	18309		2.49	1.0E-101	BF039327.1	EST_HUMAN	601486531F1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:3662086 5'
3392	19441	29367	1.73	1.0E-101	AW96556.1	EST_HUMAN	ES1377629 MAGI gene resequences, MAGI Homo sapiens cDNA
3411	15745	28763	2.03	1.0E-101	AJ237744.1	NT	Homo sapiens RIBLIR gene (partial), exon 12

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3411	15745	28764	2.03	1.0E-101	AJ237744.1	NT	Homo sapiens RIBLIR gene (partial), exon 12
3390	16930	29839	4.58	1.0E-101	AB022785.1	NT	Homo sapiens ASH2L gene, complete cds, similar to Drosophila ash2 gene
5072	18092	30963	1.54	1.0E-101	5921460	NT	Homo sapiens ASH2L gene, complete cds, similar to Drosophila ash2 gene
5072	18092	30964	1.54	1.0E-101	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTNZAT1), mRNA
5391	18494	31371	2.08	1.0E-101	AW965139.1	EST_HUMAN	EST371212 IMAGE resequences, MAGI Homo sapiens cDNA
6118	19196	32420	3.59	1.0E-101	7427512	NT	Homo sapiens cytoplasmic linker 2 (CYLN2), mRNA
6118	19196	32421	3.59	1.0E-101	7427512	NT	Homo sapiens cytoplasmic linker 2 (CYLN2), mRNA
6853	19906	33202	1.16	1.0E-101	11430734	NT	Homo sapiens carbonic anhydrase VII (CA7), mRNA
7488	20453		1.16	1.0E-101	11545780	NT	Homo sapiens hypodermal protein FLJ22087 (FLJ22087), mRNA
7542	20505	33863	4.82	1.0E-101	AF208970.1	NT	Homo sapiens Kruppel-type zinc finger protein (PEGS) mRNA, alternative splice form 4, partial cds
7542	20505	33864	4.82	1.0E-101	AF208970.1	NT	Homo sapiens Kruppel-type zinc finger protein (PEGS) mRNA, alternative splice form 4, partial cds
7717	20874	34040	7.39	1.0E-101	AW008475.1	EST_HUMAN	W581X2X1 NCJ CGAP, Gae4 Homo sapiens cDNA clone IMAGE:2533487 3'
7826	20774		1.76	1.0E-101	BE27584.1	EST_HUMAN	RC1-BT0313-220700-018-f12 BT0313 Homo sapiens cDNA
7993	20932	34927	6.3	1.0E-101	BF330759.1	EST_HUMAN	RC1-BT0313-220700-018-f12 BT0313 Homo sapiens cDNA
8245	21214	34621	1.07	1.0E-101	BE27582.1	EST_HUMAN	601121621F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3345869 5'
8245	21214	34622	1.07	1.0E-101	BE27582.1	EST_HUMAN	601121621F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3345869 5'
8390	21359	34766	5.11	1.0E-101	BF028174.1	EST_HUMAN	601121621F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3998837 5'
8655	21633	35053	0.83	1.0E-101	AW630070.1	EST_HUMAN	h174g10.y1 NCJ CGAP, GU1 Homo sapiens cDNA clone IMAGE:2968578 5' similar to gb:J03143
8655	21633	35054	0.83	1.0E-101	AW630070.1	EST_HUMAN	h174g10.y1 NCJ CGAP, GU1 Homo sapiens cDNA clone IMAGE:2968578 5' similar to gb:J03143
9364	22329	37558	0.93	1.0E-101	AA036900.1	EST_HUMAN	INTERFERON-GAMMA RECEPTOR ALPHA CHAIN PRECURSOR (HUMAN);
9685	22638	36064	0.82	1.0E-101	AB037772.1	NT	INTERFERON-GAMMA RECEPTOR ALPHA CHAIN PRECURSOR (HUMAN);
9685	22638	36065	0.82	1.0E-101	AB037772.1	NT	INTERFERON-GAMMA RECEPTOR ALPHA CHAIN PRECURSOR (HUMAN);
9817	21139	34544	19.42	1.0E-101	X60069.1	NT	PIR-S54640 S04640 YD935.03c protein - yeast
9817	21139	34545	19.42	1.0E-101	X60069.1	NT	PIR-S54640 S04640 YD935.03c protein - yeast
9880	22878	38135	18.13	1.0E-101	9845492	NT	Homo sapiens mRNA for KIAA1351 protein, partial cds
10115	23041	36520	13.91	1.0E-101	BE619667.1	EST_HUMAN	Homo sapiens mRNA for KIAA1351 protein, partial cds
10115	23041	36521	13.91	1.0E-101	BE619667.1	EST_HUMAN	Homo sapiens mRNA for KIAA1351 protein, partial cds
10254	23179	36666	0.61	1.0E-101	10863960	NT	Human mRNA for pancreatic gamma-glutamyltransferase
10773	23694	37192	1.96	1.0E-101	11429127	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), transcript variant 3, mRNA
10807	23728	37229	0.56	1.0E-101	AI570293.1	EST_HUMAN	601472808T1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3375963 3'
							601472808T1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3375963 3'
							Homo sapiens potassium channel, subfamily K, member 10 (KCNK10), mRNA
							Homo sapiens Juncus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
							to77411.x1 NCJ CGAP, Gae4 Homo sapiens cDNA clone IMAGE:2184309 3' similar to gb:M26326
							KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN)

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7343	20314	33658	0.75	1.0E-102	BE729323.1	EST_HUMAN	601561505F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3831241 5'
7371	20341	33663	0.77	1.0E-102	BE3360108.1	EST_HUMAN	60127215F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3618243 5'
7494	20450	33816	0.54	1.0E-102	AB023177.1	NT	Homo sapiens mRNA for KIAA0960 protein, partial cds
7578	20540	33859	8.85	1.0E-102	AJ238894.1	NT	Homo sapiens mRNA for Centaurin-alpha2 protein
7885	20930	34208	2.64	1.0E-102	AF170738.1	EST_HUMAN	AF170738 Cu Homo sapiens cDNA clone GJA8CD03 5'
8163	21108	34450	0.58	1.0E-102	10947053	NT	Homo sapiens arkyrin 2, neuronal (ANK2), transcript variant 2, mRNA
8565	21533	34953	3.61	1.0E-102	BE763051.1	EST_HUMAN	QV5AN10025-210600-236-n08 NT0025 Homo sapiens cDNA
8645	21613	35035	0.91	1.0E-102	BE1090555.1	EST_HUMAN	60150170F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3903145 5'
8839	21808	35223	1.22	1.0E-102	AF694817.1	EST_HUMAN	AF694817 GKC Homo sapiens cDNA clone GKCEEE11 5'
8839	21808	35224	1.22	1.0E-102	AF694817.1	EST_HUMAN	AF694817 GKC Homo sapiens cDNA clone GKCEEE11 5'
8950	21916	35340	0.74	1.0E-102	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
9283	22249	35679	0.73	1.0E-102	BE388063.1	EST_HUMAN	60128370F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605536 5'
9283	22249	35680	0.73	1.0E-102	BE388063.1	EST_HUMAN	60128370F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605536 5'
9605	22610	36062	0.56	1.0E-102	AF162856.1	EST_HUMAN	w68306.x1 NCI CGAP K1472 Homo sapiens cDNA clone IMAGE:2397971 3' similar to contains MER4.1
9636	22590	36030	0.89	1.0E-102	AF165842	EST_HUMAN	MER4 MER4 repetitive element
9878	22629	36062	2.15	1.0E-102	T070393.1	EST_HUMAN	AF175842 BM Homo sapiens cDNA clone BMFAUD08 5'
9878	22629	36063	2.15	1.0E-102	T070393.1	EST_HUMAN	YJ13407.1 Soares fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:67021 5'
9878	22629	36063	2.15	1.0E-102	T070393.1	EST_HUMAN	YJ13407.1 Soares fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:67021 5'
9768	22707	36163	3.86	1.0E-102	AF124629.1	EST_HUMAN	AU124629 NT284 Homo sapiens cDNA clone NT2RM4000309 5'
10748	22670		0.71	1.0E-102	AF163715.1	NT	Homo sapiens phospholip scramblase 1 gene, exon 1 and 5' flanking region
10798	23719	37221	0.43	1.0E-102	11425430	NT	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA
10798	23719	37222	0.43	1.0E-102	11425430	NT	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA
10835	23735	37254	3	1.0E-102	AI905037.1	EST_HUMAN	RC-BT0774-260499-014 BT0774 Homo sapiens cDNA
10835	23755	37255	3	1.0E-102	AI905037.1	EST_HUMAN	RC-BT0774-260499-014 BT0774 Homo sapiens cDNA
10896	23816	37323	1.15	1.0E-102	AA097086.1	EST_HUMAN	gn57004.s1 Soares_NEL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1560823 3' similar to
11410	24354	37697	2.38	1.0E-102	4507822	NT	SW/CAV2_HUMAN_P51636 CAVEOLIN-2 [1]:
11410	24354	37698	2.36	1.0E-102	4507822	NT	Homo sapiens UDP glycosyltransferase 2 family, polypeptide B11 (UGT2B11) mRNA
11732	24918	38195	2.7	1.0E-102	BF356243.1	EST_HUMAN	Homo sapiens UDP glycosyltransferase 2 family, polypeptide B11 (UGT2B11) mRNA
12019	24986	38494	4.74	1.0E-102	U41302.1	NT	RC9-ET0072-150600-011-F01 E.T0072 Homo sapiens cDNA
12079	24951	38546	5.67	1.0E-102	U57053.1	NT	Human chromosome 16 creatine transporter (SLC6A8) and (CDM) paralogous genes, complete cds
12162	25030		2.49	1.0E-102	AI163280.2	NT	Human unconventional myosin-ID (MYO1F) gene, partial cds
12590			4.15	1.0E-102	AF302088.2	EST_HUMAN	Homo sapiens chromosome 21 segment H521C080
13723			4.15	1.0E-102	AF302088.2	EST_HUMAN	4407512.x1 NCI CGAP C-20 Homo sapiens cDNA clone IMAGE:2656038 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF-SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
13028	25578		1.59	1.0E-102	J05235.1	NT	Human gamma-glutamyl transpeptidase mRNA, complete cds
70	13188	26107	1.14	1.0E-103	BE008158.1	EST_HUMAN	601500405F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3802305 5'
70	13188	26108	1.14	1.0E-103	BE008158.1	EST_HUMAN	601500405F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3802305 5'
100	13216	26140	9.55	1.0E-103	D67078.2	NT	Homo sapiens mRNA for KIAA0235 protein, partial cds
209	13310	26237	4.18	1.0E-103	5453793	NT	Homo sapiens nuclear protein (KKE/D repeat) (NOP56) mRNA
982	14033	26985	1.02	1.0E-103	AJ27848.1	NT	Homo sapiens mRNA for pregnancy-associated plasma protein-E (PAPPE gene)
1248	14284	27250	16.75	1.0E-103	BE877541.1	EST_HUMAN	601483388F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3887876 5'
1900	14632	27808	2.39	1.0E-103	AF012872.1	NT	Homo sapiens phosphotyrosine-stimulated 4-kinase 230 (p44K230) mRNA, complete cds
1982	15013	28018	1.4	1.0E-103	4502428	NT	Homo sapiens bone morphogenetic protein 3 (osteogenic protein 2) (BMP3) mRNA
1992	15013	28019	1.4	1.0E-103	4502428	NT	Homo sapiens bone morphogenetic protein 3 (osteogenic protein 2) (BMP3) mRNA
2313	15325	28348	0.93	1.0E-103	AU134691.1	EST_HUMAN	AUT34691 PLACE1 Homo sapiens cDNA clone PLACE1000955 5'
2457	15461	28484	1.66	1.0E-103	AF060568.1	NT	Homo sapiens promyelocytic leukemia zinc finger protein (PLZF) gene, complete cds
2501	15901	28622	1.07	1.0E-103	BF526378.1	EST_HUMAN	602041882F1 NCI_CGAP_Bn67 Homo sapiens cDNA clone IMAGE:4178429 5'
2601	15901	28623	1.07	1.0E-103	BF526378.1	EST_HUMAN	602041882F1 NCI_CGAP_Bn67 Homo sapiens cDNA clone IMAGE:4178429 5'
2627	15626	28650		1.0E-103	N32770.1	EST_HUMAN	yw91d08.s1 Soares_placenta_806weeks_2NtHP8t6w Homo sapiens cDNA clone IMAGE:2595598 3'
3082	16136		2.5	1.0E-103	BE74722.1	EST_HUMAN	601573113F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3834315 5'
3391	18440	29366	4.42	1.0E-103	AW288245.1	EST_HUMAN	UHH-BWO-gjh-t1-G-U1.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2733168 3'
3453	18499	29416	1.29	1.0E-103	AB040892.1	NT	Homo sapiens mRNA for KIAA1459 protein, partial cds
3767	18809		5.31	1.0E-103	AF023961.1	NT	Macaca mulatta cyclophilin A mRNA, complete cds
3808	18848	29756	1.28	1.0E-103	AA495963.1	EST_HUMAN	4010d12.s1 Strabagene lung (8637210) Homo sapiens cDNA clone IMAGE:840407 3' similar to contains element LTR10 repetitive element;
3841	19881	29785	3.16	1.0E-103	11430876	NT	Homo sapiens neuropilin 1 (NRP1), mRNA
4029	17087	29698	2.9	1.0E-103	T23933.1	EST_HUMAN	seq340 b4HB3MA-Cor109+10-Bio Homo sapiens cDNA clone b4HB3MA-Cor109+10-Bio-7 3'
4558	17875	30763	0.83	1.0E-103	BE000203.1	EST_HUMAN	601873135F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3955933 5'
6044	19126	32332	0.96	1.0E-103	BF595527.1	EST_HUMAN	602180023F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310573 5'
6052	19133	32342	1.87	1.0E-103	AF179955.1	NT	Homo sapiens septin 2 (SEP2) mRNA, partial cds
6398	19466	32712	0.73	1.0E-103	11435053	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
6398	19466	32713	0.73	1.0E-103	11435053	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
6602	19861	32933	0.79	1.0E-103	AW954566.1	EST_HUMAN	EST366536 MAQE reassessment; MAGC Homo sapiens cDNA
6802	19861	32864	0.79	1.0E-103	AW954566.1	EST_HUMAN	EST366536 MAQE reassessment; MAGC Homo sapiens cDNA
6847	19705	32981	0.53	1.0E-103	10847051	NT	Homo sapiens ankyrin 2, neuronal (ANK2), transcript variant 1, mRNA
6748	25687	33081	1.28	1.0E-103	AA781442.1	EST_HUMAN	q26603.s1 Soares_testis_NHT Homo sapiens cDNA clone 1391482 3'
6787	19842	33125	0.68	1.0E-103	AF053460.1	NT	Homo sapiens glycine receptor alpha 2 subunit (GLRA2) gene, exon 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6879	19931	33229	1.47	1.0E-103	AI590071.1	EST_HUMAN	trn58b05.x1 NCI CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR-Q13769
6879	19931	33230	1.47	1.0E-103	AI590071.1	EST_HUMAN	Q13769 ANONYMOUS. ; trn58b05.x1 NCI CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR-Q13769
7024	19356	31276	1.73	1.0E-103	5032282	NT	Homo sapiens dysprophth (muscular dystrophy, Duchenne and Becker types), includes DXS142, DXS164, DXS206, DXS230, DXS238, DXS268, DXS270, DXS272 (DMD), transcript variant Dp427m, mRNA
7024	18356	31276	1.73	1.0E-103	5032282	NT	Homo sapiens dysprophth (muscular dystrophy, Duchenne and Becker types), includes DXS142, DXS164, DXS206, DXS230, DXS238, DXS268, DXS270, DXS272 (DMD), transcript variant Dp427m, mRNA
7161	18363	31237	1.62	1.0E-103	11431100	NT	Homo sapiens ribosomal protein L3-like (RPL3L), mRNA
7234	20255	33589	1.06	1.0E-103	AJ289880.1	NT	Homo sapiens KIA00851 gene (partial), X73 gene and LZTFL1 gene
7437	20404	33768	2.68	1.0E-103	AW965776.1	EST_HUMAN	EST1377849 IMAGE resequenced, MAGI Homo sapiens cDNA
7556	20519	33874	3.47	1.0E-103	BE748158.1	EST_HUMAN	601571537F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3838545 5'
8051	20988	34384	3.69	1.0E-103	AI590071.1	EST_HUMAN	trn58b05.x1 NCI CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR-Q13769
8051	20988	34385	3.69	1.0E-103	AI590071.1	EST_HUMAN	trn58b05.x1 NCI CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR-Q13769
8632	21600	35022	0.43	1.0E-103	T31080.1	EST_HUMAN	EST127193 Human Brain Homo sapiens cDNA 5' end similar to None
8968	21934	35359	0.92	1.0E-103	AU140344.1	EST_HUMAN	AU140344 PLACE2 Homo sapiens cDNA clone PLACE2000374 5'
8968	21934	35360	0.92	1.0E-103	AU140344.1	EST_HUMAN	AU140344 PLACE2 Homo sapiens cDNA clone PLACE2000374 5'
9051	22017	35441	1.06	1.0E-103	BF109244.1	EST_HUMAN	760d03.x1 Sorens_NSF_FR_BW_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3526854 3' similar to
9463	22427	35855	2.86	1.0E-103	6005921	NT	SW-PTNF_HUMAN Q16826 PROTEIN-TYROSINE PHOSPHATASE D1 ;
9463	22427	35856	2.86	1.0E-103	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
9503	22467	35908	1.13	1.0E-103	AA581086.1	EST_HUMAN	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
9544	22507	35956	0.48	1.0E-103	AA774680.1	EST_HUMAN	trn58b05.x1 NCI CGAP_Ov1 Homo sapiens cDNA clone IMAGE:8001162 3' similar to gbt.02428 26S
10418	23340	39826	1.28	1.0E-103	Z37976.1	NT	PROTEASE SUBUNIT 4 (HUMAN);
10459	23381	36874	1.81	1.0E-103	AW963676.1	EST_HUMAN	aa64d12.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:870871 3' similar to
10586	23520	37012	10.03	1.0E-103	AI878956.1	EST_HUMAN	gb:303747.cd51 SODIUM-DEPENDENT Na ⁺ TRANSPORTING ATPASE BETA-1 (HUMAN);
							H.sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
							EST1575749 IMAGE resequenced, MAGI Homo sapiens cDNA
							au51004.v1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518326 5' similar to
							TR-Q15046 O15046 KIA0038 ;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11004	23970	37494	1.64	1.0E-103	BE549706.1	EST_HUMAN	764103.1 NCL_CGAP_L224 Homo sapiens cDNA clone IMAGE:320813 3' similar to gb:U69043 MAJOR HISTOCOMPATIBILITY COMPLEX ENHANCER-BINDING PROTEIN (HUMAN);
11085	24046	37568	3.99	1.0E-103	A1792750.1	EST_HUMAN	0102005 J6 NCL_CGAP_L16 Homo sapiens cDNA clone IMAGE:1522283 5' similar to TR:Q62084 Q62084 PHOSPHOLIPASE C NEIGHBORING;
11183	24139	37672	1.99	1.0E-103	11424061	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), mRNA
11183	24139	37675	1.99	1.0E-103	11424061	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), mRNA
11341	24291		1.48	1.0E-103	BE671418.1	EST_HUMAN	766008.X1 NCL_CGAP_L224 Homo sapiens cDNA clone IMAGE:3285927 3' similar to gb:J05272 INOSINE-5'-MONOPHOSPHATE DEHYDROGENASE 1 (HUMAN);
11570	24509	38006	6	1.0E-103	BE885278.1	EST_HUMAN	50116063471 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3808147 5'
11702	24687	38244	2.59	1.0E-103	AU135283.1	EST_HUMAN	AU135283 PLACE1 Homo sapiens cDNA clone PLACE1003923 5'
11774	23929	37450	7.57	1.0E-103	43810.1	NT	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30
11980	24857		1.47	1.0E-103	AB024756.1	NT	Homo sapiens TSA305 gene, exon 16
12047	24820	38516	2.25	1.0E-103	BE944611.1	EST_HUMAN	7668010.X1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3287810 3' similar to contains MER29.13 MER29 repetitive element;
12178	25026		1.88	1.0E-103	AF224693.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
12208	25049		1.95	1.0E-103	AF224693.1	NT	Homo sapiens hypodermal protein FLJ20454 (FLJ20454), mRNA
12410	25183	31820	4.32	1.0E-103	AB011366.1	NT	Homo sapiens gene for AF-6, complete cds
236	13338	26260	1.65	1.0E-104	AL037549.3	EST_HUMAN	DKFZ6564H1072_1 584 (synonym: hfr2) Homo sapiens cDNA clone DKFZ6564H1072 5'
236	13336	26261	1.65	1.0E-104	AL037549.3	EST_HUMAN	DKFZ6564H1072_1 584 (synonym: hfr2) Homo sapiens cDNA clone DKFZ6564H1072 5'
1905	14929	27825	1.85	1.0E-104	4502428	NT	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA
2203	16218	28238	2.52	1.0E-104	AA192875.1	EST_HUMAN	202206.X1 Stratagene clone (8637204) Homo sapiens cDNA clone IMAGE:587625 3' similar to
2214	15228	28231	2.87	1.0E-104	BE744628.1	EST_HUMAN	601214116_m1 CDS9 GLYCOPROTEIN PRECURSOR (HUMAN);
2377	15385	28408	1.02	1.0E-104	BF334221.1	EST_HUMAN	RG1-CT0249-110900-214112 CT0249 Homo sapiens cDNA
2377	15385	28409	1.02	1.0E-104	BF334221.1	EST_HUMAN	RG1-CT0249-110900-214112 CT0249 Homo sapiens cDNA
2444	16460	28468	2.43	1.0E-104	5031570	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
2832	15941	28858	7.18	1.0E-104	M34671.1	NT	Homo lymphocyte antigen CD58/MEIAS mRNA, complete cds
2827	15985		2.84	1.0E-104	Y11151.1	NT	H sapiens gene encoding phenylpyruvate tautomerase II
3277	16331	28252	0.94	1.0E-104	AU133926.1	EST_HUMAN	AU133926 OVARC1 Homo sapiens cDNA clone OVARC1000936 5'
3402	16451		1.89	1.0E-104	AA319436.1	EST_HUMAN	EST121658 Adrenal gland tumor Homo sapiens cDNA 5' end
3615	16659	29577	0.9	1.0E-104	AB033102.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
3615	16659	29578	0.9	1.0E-104	AB033102.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
3983	17003	29917	0.94	1.0E-104	AB032998.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds

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4156	17187	30075	0.86	1.0E-104	F11745.1	EST_HUMAN	HSC31A07.1 normalized infant brain cDNA Homo sapiens cDNA clone c-31a07
4404	17432	30317	4.11	1.0E-104	X02761.1	NT	Human mRNA for fibronectin (FN precursor)
4639	17660	30547	1.44	1.0E-104	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
4639	17660	30548	1.44	1.0E-104	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
5255	18233	31132	1.02	1.0E-104	4985570	NT	Homo sapiens novel centromeric protein RanBPM (RANBPM), mRNA
5292	18237	31158	0.83	1.0E-104	AF202314.1	NT	Homo sapiens erythropoietin (EPO) gene, exons 4 and 5 and complete cds
5292	18237	31159	0.83	1.0E-104	AF202314.1	NT	Homo sapiens erythropoietin (EPO) gene, exons 4 and 5 and complete cds
5050	19131	32338	1.44	1.0E-104	U43379.1	NT	Human Down Syndrome region of chromosome 21 DNA
6050	19131	32339	1.44	1.0E-104	U43379.1	NT	Human Down Syndrome region of chromosome 21 DNA
6100	19179	32398	0.96	1.0E-104	AB017332.1	NT	Homo sapiens alk3 mRNA for Auricular1-related kinase 3, complete cds
6611	19669	32945	24.48	1.0E-104	A1768797.1	EST_HUMAN	w03b12.x1 NCI CGAP Kid12 Homo sapiens cDNA clone IMAGE:2401727 3' similar to TRQ14145 Q14145 KIAA0132 PROTEIN, contains element LTR7 repetitive element
6611	19669	32946	24.48	1.0E-104	A1768797.1	EST_HUMAN	w03b12.x1 NCI CGAP Kid12 Homo sapiens cDNA clone IMAGE:2401727 3' similar to TRQ14145 Q14145 KIAA0132 PROTEIN, contains element LTR7 repetitive element
6855	19959	33146	0.92	1.0E-104	7708512	NT	KIAA0132 PROTEIN, contains element LTR7 repetitive element
6973	20196	33523	1.53	1.0E-104	BE314182.1	EST_HUMAN	Homo sapiens PDZ domain-containing guanine nucleotide exchange factor 1 (LOC51735), mRNA
6973	20196	33524	1.53	1.0E-104	BE314182.1	EST_HUMAN	801150451F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503220 5'
7455	20402	33756	2.14	1.0E-104	11425572	NT	801150451F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503220 5'
8944	21810	35335	0.74	1.0E-104	BF506244.1	EST_HUMAN	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
8944	21810	35335	0.74	1.0E-104	BF506244.1	EST_HUMAN	UJ-HB14-40w-B-09-QUI-1 NCI CGAP SubB Homo sapiens cDNA clone IMAGE:3086178 3'
9522	22485	35932	3.56	1.0E-104	BF446230.1	EST_HUMAN	ad18g11.x1 NCI CGAP Lu24 Homo sapiens cDNA clone IMAGE:3365948 3'
9518	22562	35010	0.63	1.0E-104	AA682303.1	EST_HUMAN	298505.6 f1 Soares, fetal, liver, spleen, 1NFLS S1 Homo sapiens cDNA clone IMAGE:462897 3'
9536	22583		1.21	1.0E-104	U74219.1	EST_HUMAN	y43302.r1 Soares infant brain 1N18 Homo sapiens cDNA clone IMAGE:22440 5'
9659	22622	36073	4.59	1.0E-104	AF091395.1	NT	Homo sapiens Tiro isoform mRNA, complete cds
9659	22622	36074	4.59	1.0E-104	AF091395.1	NT	Homo sapiens Tiro isoform mRNA, complete cds
9766	21119	34520	4.97	1.0E-104	BF352841.1	EST_HUMAN	IL3-HT0619-080900-249-F07 HT0619 Homo sapiens cDNA
9766	21119	34521	4.97	1.0E-104	BF352841.1	EST_HUMAN	IL3-HT0619-080900-249-F07 HT0619 Homo sapiens cDNA
10111	23037	36516	0.69	1.0E-104	AW103948.1	EST_HUMAN	x476402.x1 Soares, NFL, T, GBC, S1 Homo sapiens cDNA clone IMAGE:2603523 3' similar to TRQ24116
10111	23037	36517	0.69	1.0E-104	AW103948.1	EST_HUMAN	x476402.x1 Soares, NFL, T, GBC, S1 Homo sapiens cDNA clone IMAGE:2603523 3' similar to TRQ24116
10307	23231	36714	0.62	1.0E-104	AF113514.1	NT	Q24116 HYPO THEICAL 28.4 KD PROTEIN, ;
10453	23375	36867	3.35	1.0E-104	BE791713.1	EST_HUMAN	Homo sapiens histone acetyltransferase MORF mRNA, complete cds
10453	23375	36868	3.35	1.0E-104	BE791713.1	EST_HUMAN	801581503F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3935977 5'
10765	23688	37182	1.36	1.0E-104	AV728070.1	EST_HUMAN	AV728070 HTC Homo sapiens cDNA clone HTCBYA07 5'

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10808	23729	37231	5.11	1.0E-104	AU130785.1	EST_HUMAN	AU130785 NT2RP3 Homo sapiens cDNA clone NT2RP3001398 5'
10917	23837	37353	4.5	1.0E-104	U69535.1	NT	Human beta4-integrin (ITGB4) gene, exons 19, 20, 21, 22, 23, 24 and 25
10931	23851		3.82	1.0E-104	11427757	NT	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA
11628	24567	38129	3.09	1.0E-104	BE720191.1	EST_HUMAN	RC3-HIT0885-310700-021-509 HT0885 Homo sapiens cDNA
11629	24567	38130	3.09	1.0E-104	BE720191.1	EST_HUMAN	RC3-HIT0885-310700-021-509 HT0885 Homo sapiens cDNA
11656	24592	38165	3.48	1.0E-104	BF684288.1	EST_HUMAN	RC214121FT NIH_MGC 48 Homo sapiens cDNA clone IMAGE:4302507 5'
12968	25548		1.43	1.0E-104	BE380382.1	EST_HUMAN	RC131212FT NIH_MGC 44 Homo sapiens cDNA clone IMAGE:3858676 5'
278	15810	26302	1.61	1.0E-105	4902168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease neurin-II, Alzheimer disease) (APP), mRNA
425	13120	26018	9.28	1.0E-105	4905150	NT	Homo sapiens Meis1 (mouse) homolog (MEIS1) mRNA
569	13883	26578	3.89	1.0E-105	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
596	13883	26577	3.89	1.0E-105	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
1889	14720		2.33	1.0E-105	AB020981.1	NT	Homo sapiens mRNA for cyclin B2, complete cds
1837	14884	27862	1.47	1.0E-105	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
1943	14967	27964	2.09	1.0E-105	D50918.1	NT	Human mRNA for KIAA0128 gene, partial cds
2199	15214	28234	2	1.0E-105	AA318359.1	EST_HUMAN	EST120609 Spleen 1 Homo sapiens cDNA 5' end similar to autoimmune antigen Ku, p70/p80 subunit
2731	15725		1.07	1.0E-105	AA584908.1	EST_HUMAN	h010d03 s1 NCL CGAP Phd1 Homo sapiens cDNA clone IMAGE:1100285 3'
3018	16078		3.14	1.0E-105	AJ229041.1	NT	Homo sapiens 950 kb contig between AML1 and CBR1 on chromosome 21q22, segment 1/3
3382	16412	29338	1.11	1.0E-105	7304822	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 28 (BAZ28), mRNA
3392	16412	29337	1.11	1.0E-105	7304822	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 28 (BAZ28), mRNA
4125	17158	30046	3.14	1.0E-105	AW961888.1	EST_HUMAN	EST1373761 MAGE reserqueres, MAGE Homo sapiens cDNA
4773	17793	30894	0.69	1.0E-105	BE688881.1	EST_HUMAN	801445823FT NIH_MGC 65 Homo sapiens cDNA clone IMAGE:3850156 5'
4773	17793	30895	0.69	1.0E-105	BE688881.1	EST_HUMAN	801445823FT NIH_MGC 65 Homo sapiens cDNA clone IMAGE:3850156 5'
4773	17810	30702	1.65	1.0E-105	AA699395.1	EST_HUMAN	214q02 s1 Soares fetal liver spleen, 1NFLS 51 Homo sapiens cDNA clone IMAGE:435982 3'
4976	17891		4.04	1.0E-105	AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C008
5147	18156	31036	1.21	1.0E-105	AB018339.1	NT	Homo sapiens mRNA for KIAA0768 protein, partial cds
5403	18506	31383	1.02	1.0E-105	AF016704.1	NT	Homo sapiens EBAP ubiquitin-protein ligase (UBE3A) gene, exon 2
5471	18572		1.02	1.0E-105	11420134	NT	Homo sapiens beta-tubulin domain POU-domain factor-1 (RPF-1), mRNA
7089	20023	33324	1.57	1.0E-105	BF314302.1	EST_HUMAN	801801028FT NIH_MGC 18 Homo sapiens cDNA clone IMAGE:4130334 5'
7089	20023	33325	1.57	1.0E-105	BF314302.1	EST_HUMAN	801801028FT NIH_MGC 18 Homo sapiens cDNA clone IMAGE:4130334 5'
7174	18405	31203	3.49	1.0E-105	11419198	NT	Homo sapiens GTPase activating protein-like (GAPL), mRNA
7174	18405	31204	3.49	1.0E-105	11419198	NT	Homo sapiens GTPase activating protein-like (GAPL), mRNA
7223	20465	33579	0.96	1.0E-105	AW951634.1	EST_HUMAN	EST1365869 MAGE reserqueres, MAGE Homo sapiens cDNA
7501	20466	33827	0.89	1.0E-105	BE902616.1	EST_HUMAN	801677278FT NIH_MGC 21 Homo sapiens cDNA clone IMAGE:3860019 5'

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2610	19609	28633	1.79	1.0E-106	BE260201.1	EST_HUMAN	601149783F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502461 5'
2768	15760	26762	4.05	1.0E-106	AI278528.1	EST_HUMAN	qf7610.x1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:1878307 3'
2836	14461	27437	1.13	1.0E-106	4504184	NT	Homo sapiens glutathione S-transferase beta 1 (GSTT1), mRNA
2838	14461	27438	1.13	1.0E-106	4504184	NT	Homo sapiens glutathione S-transferase beta 1 (GSTT1), mRNA
2868	15945	28660	0.69	1.0E-106	BE384266.1	EST_HUMAN	601212675F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3613818 5'
2892	19009	28934	4.42	1.0E-106	AB037747.1	NT	Homo sapiens mRNA for KIAA1326 protein, partial cds
2932	19009	28935	4.42	1.0E-106	AB037747.1	NT	Homo sapiens mRNA for KIAA1326 protein, partial cds
3195	16280	29188	1.72	1.0E-106	8922685	NT	Homo sapiens hypothetical protein FLJ11273 (FLJ11273), mRNA
3195	16280	29189	1.72	1.0E-106	8922685	NT	Homo sapiens hypothetical protein FLJ11273 (FLJ11273), mRNA
3454	16500	29417	1	1.0E-106	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
3454	16500	29418	1	1.0E-106	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
4058	17104	29696	7.68	1.0E-106	AW974650.1	EST_HUMAN	EST336875 IMAGE resequences, MAGN Homo sapiens cDNA
4058	17104	29697	7.68	1.0E-106	AW974650.1	EST_HUMAN	EST336875 IMAGE resequences, MAGN Homo sapiens cDNA
4831	17852	30539	0.73	1.0E-106	BE144286.1	EST_HUMAN	MR0-HT0166-140200-008-c10 HT0166 Homo sapiens cDNA
4834	17950	30841	0.92	1.0E-106	U81520.1	NT	Human alpha mannosidase II mRNA, complete cds
5299	18294		0.96	1.0E-106	L41644.1	NT	Homo sapiens cystoplatin gene, exon 41
5443	18545	31457	2.52	1.0E-106	AA781155.1	EST_HUMAN	qf24006.s1 Soares_testis_NHT Homo sapiens cDNA clone 1361225 3' similar to gb-X12433 PROTEIN
5954	19038	32236	0.82	1.0E-106	AU130113	EST_HUMAN	PHPS-2 (HUMAN);
5954	19038	32237	0.82	1.0E-106	AU130113	EST_HUMAN	AU130113 NT2RP3 Homo sapiens cDNA clone NT2RP3000274 5'
6009	19092	32292	0.56	1.0E-106	AA434168.1	EST_HUMAN	AU130113 NT2RP3 Homo sapiens cDNA clone NT2RP3000274 5'
6108	19187	32406	0.78	1.0E-106	AU143428.1	EST_HUMAN	zw28d12.s1 Scores ovary tumor NihHOT Homo sapiens cDNA clone IMAGE:770815 3'
6108	19187	32407	0.78	1.0E-106	AU143428.1	EST_HUMAN	AU143428 Y76AA1 Homo sapiens cDNA clone Y76AA1001912 5'
6221	19295	32529	19	1.0E-106	BF676574.1	EST_HUMAN	AU143428 Y76AA1 Homo sapiens cDNA clone Y76AA1001912 5'
6332	19402	32843	0.69	1.0E-106	BE897112.1	EST_HUMAN	602154012F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4295087 5'
6536	19402	32843	0.69	1.0E-106	BE897112.1	EST_HUMAN	601439670F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924641 5'
6559	19619	32854	17.32	1.0E-106	11545013	EST_HUMAN	601439670F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924641 5'
6559	19619	32855	17.32	1.0E-106	11545013	NT	Homo sapiens xylotriphosphatase II (XT2), mRNA
6559	19619	32855	17.32	1.0E-106	11545013	NT	Homo sapiens xylotriphosphatase II (XT2), mRNA
7598	20557	33917	5.25	1.0E-106	AA663779.1	EST_HUMAN	act72007.1 Staiagenes schizobrain ST11 Homo sapiens cDNA clone IMAGE:966732 3' similar to gb-X65873
7665	20515	33979	5.04	1.0E-106	11429617	NT	KINESIN HEAVY CHAIN (HUMAN);
7748	20700	34066	1.17	1.0E-106	BE282722.1	EST_HUMAN	Homo sapiens XPMO2 protein (LOC57109), mRNA
7868	20813	34190	8.48	1.0E-106	11425503	NT	601105739F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:2088345 5'
7869	20813	34191	8.48	1.0E-106	11425503	NT	Homo sapiens sorting nexin 11 (SNX11), mRNA
7869	20813	34191	8.48	1.0E-106	11425503	NT	Homo sapiens sorting nexin 11 (SNX11), mRNA

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8119	21056	34453	0.63	1.0E-106	AI16950.1	EST_HUMAN	AUT16950 HEMBA1 Homo sapiens cDNA clone HEMBA1000129.5'
8317	21286	34659	5.05	1.0E-106	BE741408.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463.5'
8317	21286	34700	5.05	1.0E-106	BE741408.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463.5'
8515	21463	34937	105.87	1.0E-106	AI523066.1	EST_HUMAN	ar89a07.x1 Barstead sortia HPLRB8 Homo sapiens cDNA clone IMAGE:2127732.3' similar to gb:U06233
8976	21942	35366	0.76	1.0E-106	BE387950.1	EST_HUMAN	CALGRANULIN B (HUMAN); 601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604463.5'
8976	21942	35367	0.76	1.0E-106	BE387950.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604463.5'
9054	22020	35445	3.3	1.0E-106	AI654123.1	EST_HUMAN	Q05084.68 KD ISLET CELL AUTOANTIGEN; 601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:2283632.3' similar to SW:ICAB_HUMAN
9060	22026	35449	0.53	1.0E-106	AI594109.1	EST_HUMAN	W138c03.31 Spines, Diodorella, colon, NHCD Homo sapiens cDNA clone IMAGE:2622208.3' similar to
9407	22372	35807	0.87	1.0E-106	AW639331.1	EST_HUMAN	TR-070273.070273.ETS HOMOLOGOUS FACTOR ; 601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604217.5'
9502	22466	35906	2.47	1.0E-106	AA825307.1	EST_HUMAN	CM-HL-T0059-150203-098-e081 T0059 Homo sapiens cDNA clone IMAGE:1354790.3'
9502	22466	35907	2.47	1.0E-106	AA825307.1	EST_HUMAN	oc87e08.s1 NCI_CGAP_GC81 Homo sapiens cDNA clone IMAGE:1354790.3'
9641	22585	36034	1.55	1.0E-106	AI750447.1	EST_HUMAN	cn03a04.y1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_end03a04.random
9784	22725	36181	1.81	1.0E-106	AI475669.1	EST_HUMAN	in4102.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2160669.3' similar to contains MSR1.13
9784	22725	36182	1.81	1.0E-106	AI475669.1	EST_HUMAN	TAR1 P1R6 repetitive element ; 601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604217.5'
10361	23284	36761	1.22	1.0E-106	BE389234.1	EST_HUMAN	TAR1 PTRS repetitive element ; 601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604217.5'
10444	23366	36856	0.92	1.0E-106	BF027310.1	EST_HUMAN	601671674F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3954403.5'
10444	23366	36857	0.92	1.0E-106	BF027310.1	EST_HUMAN	601671674F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3954403.5'
10801	23523	37017	5.46	1.0E-106	AA604417.1	EST_HUMAN	np57b10.s1 NCI_CGAP_B12 Homo sapiens cDNA clone IMAGE:1130395.3'
10801	23523	37018	5.46	1.0E-106	AA604417.1	EST_HUMAN	np57b10.s1 NCI_CGAP_B12 Homo sapiens cDNA clone IMAGE:1130395.3'
10648	23570	37066	1.58	1.0E-106	AW383269.1	EST_HUMAN	RCO-CT0318-201199-031-a11 C10318 Homo sapiens cDNA clone IMAGE:1130395.3'
10653	23575	37071	0.5	1.0E-106	11436432	NT	Homo sapiens multidrug (MDR1), mRNA
10533	23578	37072	0.5	1.0E-106	11436432	NT	Homo sapiens multidrug (MDR1), mRNA
10537	23748	37249	0.49	1.0E-106	AL039868.1	EST_HUMAN	DKFZ-434F0712.1_434 (synonym: hbs3) Homo sapiens cDNA clone DKFZp434F0712.5'
10942	23864	37379	3.52	1.0E-106	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
11242	24195	37713	4.84	1.0E-106	BF032755.1	EST_HUMAN	601453461F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3957366.5'
11242	24195	37714	4.84	1.0E-106	BF032755.1	EST_HUMAN	601453461F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3957366.5'
11402	24346	37879	2.76	1.0E-106	J05200.1	NT	Human ryanodine receptor mRNA, complete cds
11402	24346	37890	2.76	1.0E-106	J05200.1	NT	Human ryanodine receptor mRNA, complete cds

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11736	24022	38200	3.21	1.0E-106	BE257385.1	EST_HUMAN	601109219F1 NIH_MGC. 16 Homo sapiens cDNA clone IMAGE:3349897 5'
12260	25763		8.02	1.0E-106	AW410405.1	EST_HUMAN	fl08h11.x1 NIH_MGC. 17 Homo sapiens cDNA clone IMAGE:2981644 5'
12481	25229	31796	3.98	1.0E-106	BE834488.1	EST_HUMAN	601433087F1 NIH_MGC. 72 Homo sapiens cDNA clone IMAGE:3918524 5'
12481	25229	31797	3.58	1.0E-106	BE894488.1	EST_HUMAN	601433087F1 NIH_MGC. 72 Homo sapiens cDNA clone IMAGE:3918524 5'
12687	25354		4.46	1.0E-106	BE665905.1	EST_HUMAN	RC1-CT0249-398800-024-035 CT0249 Homo sapiens cDNA
237	13337		4.26	1.0E-107	AJ271735.1	NT	Homo sapiens Xq pseudocentromeric region, segment 1/2
264	13360		1.95	1.0E-107	X60459.1	NT	Human IFNAR gene for interferon alpha/beta receptor
631	13096	26616	3.38	1.0E-107	AF195103.1	NT	Homo sapiens NY-REN-25 antigen mRNA, partial cds
814	13872	26820	2.77	1.0E-107	X60459.1	NT	Human IFNAR gene for interferon alpha/beta receptor
887	13942	26800	1.31	1.0E-107	X60459.1	NT	Human IFNAR gene for interferon alpha/beta receptor
970	14022	26975	12.86	1.0E-107	AF154121.1	NT	Homo sapiens sodium-dependent high-affinity dicarboxylate transporter (NADC3) mRNA, complete cds
1283	14318	27281	7.8	1.0E-107	AB032253.1	NT	Homo sapiens BAZ1B mRNA for bromodomain adjacent to zinc finger domain 1B, complete cds
1573	14505	27578	3.93	1.0E-107	BF087405.1	EST_HUMAN	QV2-HT0540-120900-338-ad3 HT0540 Homo sapiens cDNA
1767	14796	27781	2.54	1.0E-107	AF136275.1	NT	Homo sapiens cathelin Z precursor (CTS2) gene, exon 3
1857	14893	27878	0.96	1.0E-107	AB007922.2	NT	Homo sapiens mRNA for KIAA0453 protein, partial cds
1857	14893	27880	0.96	1.0E-107	AB007922.2	NT	Homo sapiens mRNA for KIAA0453 protein, partial cds
2218	15232	28256	1.11	1.0E-107	U13728.1	NT	Human disciply peptidease IV (CD26) gene, exon 20
2370	15378	28401	1.02	1.0E-107	AW842451.1	EST_HUMAN	PMT-CN0031-190100-001-403 CN0031 Homo sapiens cDNA
2370	15378	28402	1.02	1.0E-107	AW842451.1	EST_HUMAN	PMT-CN0031-190100-001-403 CN0031 Homo sapiens cDNA
2540	15542	28568	1.12	1.0E-107	BE732460.1	EST_HUMAN	601567619F1 NIH_MGC. 21 Homo sapiens cDNA clone IMAGE:3842309 5'
2540	15542	28567	1.12	1.0E-107	BE732460.1	EST_HUMAN	601567619F1 NIH_MGC. 21 Homo sapiens cDNA clone IMAGE:3842309 5'
3018	16077	28897	3.8	1.0E-107	AW842451.1	EST_HUMAN	PMT-CN0031-190100-001-403 CN0031 Homo sapiens cDNA
3019	16077	28968	3.8	1.0E-107	AW842451.1	EST_HUMAN	PMT-CN0031-190100-001-403 CN0031 Homo sapiens cDNA
3118	16173	29083	3.16	1.0E-107	5992087.1	NT	Homo sapiens myotubularin (MTM1) gene, exon 9
3939	16879	29782	4.78	1.0E-107	AF020671.1	NT	Homo sapiens myotubularin (MTM1) gene, exon 9
5708	18801	31978	0.66	1.0E-107	AW960338.1	EST_HUMAN	EST381115.MAGE resequences: MAGK Homo sapiens cDNA
5865	19050	32251	3.4	1.0E-107	BE697469.1	EST_HUMAN	601442555F1 NIH_MGC. 95 Homo sapiens cDNA clone IMAGE:3348494 5'
6875	20198	33527	0.96	1.0E-107	6005708	NT	Homo sapiens A kinase (PRKA) anchor protein T0 (AKAP-T0), mRNA
7107	20041	33343	0.93	1.0E-107	11431469	NT	Homo sapiens general transcription factor IIIC, polypeptide 1 (alpha subunit, 220kD) (GTF3C1), mRNA
7107	20041	33344	0.63	1.0E-107	11431469	NT	Homo sapiens general transcription factor IIIC, polypeptide 1 (alpha subunit, 220kD) (GTF3C1), mRNA
7688	20349	33609	1.16	1.0E-107	AW603913.1	EST_HUMAN	U1-HF-BNO-alf-2-08-O-U1.71 NIH_MGC. 50 Homo sapiens cDNA clone IMAGE:3079310 5'

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7568	20549	33610	1.16	1.0E-107	AW503913.1	EST_HUMAN	U1HF-BNO- <i>all-08-04-UL17</i> NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079310 5'
7773	20728	34098	1.54	1.0E-107	AJ765078.1	EST_HUMAN	wh6h04.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2384791 3'
8004	20943	34336	0.81	1.0E-107	AJ404468.1	NT	Homo sapiens mRNA for dyenin heavy chain (DNAH9 gene)
8004	20943	34337	0.81	1.0E-107	AJ404468.1	NT	Homo sapiens mRNA for dyenin heavy chain (DNAH9 gene)
8078	21015	34415	0.50	1.0E-107	AW410961.1	EST_HUMAN	fr08d11.x2 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2964524 5'
9742	22770	36225	1	1.0E-107	AJ122468.1	EST_HUMAN	AJ122468 MAMMA1 Homo sapiens cDNA clone MAMMA1002433 5'
11061	24024	37546	2.92	1.0E-107	AJ392850.1	EST_HUMAN	tg10d06.x1 NCI CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2108363 3' similar to SWAACT_DICDI
11283	24243	37770	1.52	1.0E-107	L48141.1	NT	PC0065 ALPHA-ACTININ 3, NON MUSCULAR;
11308	24258	37784	2.09	1.0E-107	BF66511.1	EST_HUMAN	Homo sapiens neuroendocrine-specific protein (NSP) gene, exon 4
11651	24359	38158	4.76	1.0E-107	BE540550.1	EST_HUMAN	50123963F1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:4281039 5'
11721	23918	37435	2.44	1.0E-107	11419701	NT	60108669F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3452829 5'
11721	23918	37436	2.44	1.0E-107	11419701	NT	Homo sapiens HSPC049 protein (HSPC049) mRNA
12321	25902		5.18	1.0E-107	AA001415.1	EST_HUMAN	Homo sapiens HSPC049 protein (HSPC049) mRNA
12345	25769		1.48	1.0E-107	11418318	NT	2845601.s1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:361944 3' similar to THR.b1
958	14009	26662	1.66	1.0E-108	BE266042.1	EST_HUMAN	THR repetitive element;
1270	14305	27265	4.89	1.0E-108	Y18000.1	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1) mRNA
2091	15108	28127	1.24	1.0E-108	BF026728.1	EST_HUMAN	Homo sapiens NF2 gene
							Homo sapiens NF2 gene
							Homo sapiens NF2 gene
2435	15442	29460	9.44	1.0E-108	BE206594.1	EST_HUMAN	60167161F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3954939 5'
3350	16410	29332	0.79	1.0E-108	AF032897.1	NT	h25b510.x1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2963899 3' similar to gb:X63777 60S
3360	16410	29333	0.79	1.0E-108	AF032897.1	NT	RIBOSOMAL PROTEIN L23 (HUMAN), pb-105277 Mouse hexokinase mRNA, complete cds (MOUSE);
4184	17215	30102	1.13	1.0E-108	AW654438.1	EST_HUMAN	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
4555	17578	30466	1.73	1.0E-108	U72661.1	NT	h12a11.x1 NCI CGAP_GU1 Homo sapiens cDNA clone IMAGE:2872060 3' similar to SW3BP1_MOUSE
4555	17578	30469	1.73	1.0E-108	U72661.1	NT	P65194 SH3-BINDING PROTEIN 3BP-1;
4842	17859	30754	1.39	1.0E-108	7661979	NT	Human hepatocyte nuclear factor 4-alpha gene, exon 2
4956	17971	30862	0.98	1.0E-108	AW504799.1	EST_HUMAN	Human hepatocyte nuclear factor 4-alpha gene, exon 2
4986	18001	30860	2.59	1.0E-108	AJ038005.1	NT	Homo sapiens KIA040187 gene product (KIA040187), mRNA
5184	18193	31068	0.71	1.0E-108	5031624	NT	U1HF-BNO- <i>all-04-04-UL17</i> NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3080166 5'
5556	18653	31597	1.1	1.0E-108	AW384094.1	EST_HUMAN	Homo sapiens CCAAT-box-binding transcription factor (CBF2) mRNA
5605	18701	31673	2.27	1.0E-108	BE665016.1	EST_HUMAN	RC04.T0372.24186-031-003 T10372 Homo sapiens cDNA
							60144922F1 NIH_MGC_05 Homo sapiens cDNA clone IMAGE:3846860 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5605	18701	31674	2.27	1.0E-108	BE69016.1	EST_HUMAN	601444822F1 NIH_MGC_85 Homo sapiens cDNA clone IMAGE:3849880 5'
6038	19119		0.8	1.0E-108	AF012623.1	NT	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 20
6117	19195	32419	0.92	1.0E-108	BF334951.1	EST_HUMAN	PM4-CT0403-240700-001-c10 CT0403 Homo sapiens cDNA
6262	19335	32567	6.27	1.0E-108	AF264717.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds
6262	19335	32568	8.27	1.0E-108	AF264717.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds
6392	19460	32706	1.22	1.0E-108	AJ133289.1	NT	Homo sapiens caveolin-1/2 locus, Conf1g1, D7S5622, genes CAV2 (exons 1, 2a and 2b), CAV1 (exons 1 and 2)
6494	19195	32419	0.99	1.0E-108	BF334951.1	EST_HUMAN	PM4-CT0403-240700-001-c10 CT0403 Homo sapiens cDNA
6773	19828	33110	0.67	1.0E-108	AF016708.1	NT	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 4
6773	19828	33111	0.67	1.0E-108	AF016708.1	NT	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 4
7363	20335	33985	5.42	1.0E-108	11431857	NT	Homo sapiens G protein-coupled receptor, family C, group 5, member B (GPCR3B), mRNA
7673	20631	33995	1.99	1.0E-108	4756333	NT	Homo sapiens delta-8 fatty acid desaturase (FADS2D) mRNA
7718	20675	34041	1.13	1.0E-108	BE252607.1	EST_HUMAN	601113471F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3354084 5'
7749	20702	34069	0.88	1.0E-108	BF528912.1	EST_HUMAN	602043384F1 NCJ_CGAP_Bn67 Homo sapiens cDNA clone IMAGE:4181037 5'
7749	20702	34070	0.68	1.0E-108	BF528912.1	EST_HUMAN	602043384F1 NCJ_CGAP_Bn67 Homo sapiens cDNA clone IMAGE:4181037 5'
8149	21088	34485	0.57	1.0E-108	11422155	NT	Homo sapiens cystic fibrosis transmembrane conductance regulator, ATP-binding cassette (sub-family C, member 7) (CFTR), mRNA
8399	21368		1.8	1.0E-108	AF083500.1	NT	Homo sapiens connective tissue growth factor-like protein precursor, mRNA, complete cds
8432	21421	34835	5.44	1.0E-108	AW406894.1	EST_HUMAN	U1-HF-BM0-eds-e-12-C-U1.1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3062878 5'
8432	21421	34836	5.44	1.0E-108	AW406894.1	EST_HUMAN	U1-HF-BM0-eds-e-12-C-U1.1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3062878 5'
9402	22367	35600	0.93	1.0E-108	AF208977.1	NT	Homo sapiens ETS-family transcription factor EHF (EHF) mRNA, complete cds
9441	22405	35842	0.48	1.0E-108	N44974.1	EST_HUMAN	Y35910.1 Scarsa melanocyte 2NB-RM Homo sapiens cDNA clone IMAGE:273293 5' similar to PIRJA48773 A48773 kelch protein, long form - fruit fly;
10983	23903	37417	2.67	1.0E-108	11428155	NT	Homo sapiens similar to high-mobility group (nonhistone chromosomal) protein 4 (H. sapiens) (LOC63446), mRNA
11027	21040	34759	2.14	1.0E-108	BE535227.1	EST_HUMAN	601058769F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3445361 5'
11177	18353	31288	1.64	1.0E-108	Y12490.1	NT	Homo sapiens mRNA for G80-associated microtubule-binding protein (GNAP-210)
11602	24540	38099	3.33	1.0E-108	AW966185.1	EST_HUMAN	EST378298 MAGE resequences, MAGE Homo sapiens cDNA
11653	24590	38160	1.75	1.0E-108	AW708790.1	EST_HUMAN	AV708790 ADC Homo sapiens cDNA clone ADCAEE03 5'
11653	24590	38161	1.75	1.0E-108	AW708790.1	EST_HUMAN	AV708790 ADC Homo sapiens cDNA clone ADCAEE03 5'
11653	24653	38161	2.05	1.0E-108	11441465	NT	Homo sapiens G protein-coupled receptor 48 (GPR48), mRNA
11653	24653	38265	1.91	1.0E-108	063539.1	NT	Homo sapiens COL4A6 gene for aq(V) collagen, exon 23

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12493	25238	31800	5.14	1.0E-108 AK024447.1	NT	EST_HUMAN	Human sapiens mRNA for FLJ00037 protein, partial cds
12884	26467		11.97	1.0E-109 BF346398.1	EST_HUMAN	EST_HUMAN	G02018571 F1 NCI CGAP_Bmt67 Homo sapiens cDNA clone IMAGE:154297 5'
13664	43164	29007	4.21	1.0E-109 AW803116.1	EST_HUMAN	EST_HUMAN	IL2J00077-260.400-079-008 OM00777 Homo sapiens cDNA
67	13185	29104	6.88	1.0E-109 DB6974.1	NT	NT	Human mRNA for KIAA0220 gene, partial cds
220	13320	28245	1.31	1.0E-109	11422488	NT	Human sapiens hypothetical protein FLJ11316 (FLJ11316), mRNA
229	13328	28251	1.97	1.0E-109	11438391	NT	Human sapiens reticulocalbin 1, EF-hand calcium binding domain (RCN1), mRNA
467	13540	28465	2.2	1.0E-109	45071712	NT	Human sapiens tetrapeptide repeat domain 2 (TTD2) mRNA
600	13687	26581	13.45	1.0E-109 ABQ23218.1	NT	EST_HUMAN	Human sapiens mRNA for KIAA0699 protein, partial cds
600	13687	26582	13.45	1.0E-109 ABQ23218.1	NT	EST_HUMAN	Human sapiens mRNA for KIAA0699 protein, partial cds
1014	14062	27013	0.98	1.0E-109 AL163249.2	NT	EST_HUMAN	Human sapiens chromosome 21 segment HS210049
1207	14246	27204	23.68	1.0E-109 M28698.1	NT	EST_HUMAN	Human sapiens nuclear phosphoprotein B23 (NPM1) mRNA, complete cds
1208	14246	27204	21.33	1.0E-109 M28698.1	NT	EST_HUMAN	Human sapiens nuclear phosphoprotein B23 (NPM1) mRNA, complete cds
1544	14577	27549	1.2	1.0E-109 BE26873.1	EST_HUMAN	EST_HUMAN	G01186222 F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2958636 5'
1544	14577	27549	1.2	1.0E-109 BE26873.1	EST_HUMAN	EST_HUMAN	G01186222 F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2958636 5'
1881	14916	28711	1.63	1.0E-109 D13943.2	NT	NT	Human sapiens mRNA for KIAA0018 protein, partial cds
2253	15267	28294	2.68	1.0E-109 AL163284.2	NT	EST_HUMAN	Human sapiens chromosome 21 segment HS210084
2262	15276	28300	2.89	1.0E-109 Y17123.1	NT	EST_HUMAN	Human sapiens SNF5/NF1 gene, exon 6
2830	15029	28654	3.42	1.0E-109 AID22328.1	EST_HUMAN	EST_HUMAN	trO02197 002197 CIRCULATING CATHODIC ANTIGEN ;
2830	15629	28655	3.42	1.0E-109 AID22328.1	EST_HUMAN	EST_HUMAN	trO02197 002197 CIRCULATING CATHODIC ANTIGEN ;
2831	15630	28656	1.84	1.0E-109	4504206	NT	trO02197 002197 CIRCULATING CATHODIC ANTIGEN ;
3071	16128	29040	1.81	1.0E-109 N65190.1	EST_HUMAN	EST_HUMAN	Human sapiens guanylate cyclase activator 1A (retina) (GUCA1A) mRNA
3399	16443	29374	1.33	1.0E-109 AW893192.1	EST_HUMAN	EST_HUMAN	J2816F Human fetal heart, Lambda Zap Express Homo sapiens cDNA clone J2816 5' similar to ZINC FINGER PROTEIN ZNF43
3399	16443	29375	1.33	1.0E-109 AW893192.1	EST_HUMAN	EST_HUMAN	CN8-NN0009-190400-150-170 NN0009 Homo sapiens cDNA
3530	16576	29498	1.98	1.0E-109 AF240698.1	NT	NT	Human sapiens retinol dehydrogenase homolog (solom-1) (RDH) mRNA, complete cds
3572	16817	29538	0.92	1.0E-109 M37928.1	NT	NT	Human sapiens adenosine monophosphate deaminase 1 (AMPD1) gene, exons 8-10
3572	16817	29539	0.92	1.0E-109 M37928.1	NT	NT	Human sapiens adenosine monophosphate deaminase 1 (AMPD1) gene, exons 8-10
3856	16896		2.3	1.0E-109 BE146144.1	EST_HUMAN	EST_HUMAN	MRO-HT0209-110400-108-404 HT0209 Homo sapiens cDNA
4171	17202	30089	4.97	1.0E-109 AB85417.1	EST_HUMAN	EST_HUMAN	ts98a636 x1 NCI CGAP_GC06 Homo sapiens cDNA clone IMAGE:2293930 3' similar to WP:FS0A2.8
4189	17220	30107	1.33	1.0E-109 AA662274.1	EST_HUMAN	EST_HUMAN	nu93c12c1 x1 NCI CGAP_P122 Homo sapiens cDNA clone IMAGE:1216282 3' similar to SW:GTT2_HUMAN
							P30712 GLUTATHIONE S-TRANSFERASE THETA 2 :

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4189	17220	30108	1.33	1.0E-109	AA662274.1	EST_HUMAN	nu89c12.a1 NC1 CGAP P122 Homo sapiens cDNA clone IMAGE:1218232 3' similar to SW:GTT2_HUMAN
4432	17459	30350	2.38	1.0E-109	4504208	NT	P30712 GLUTATHIONE S-TRANSFERASE THETA 2;
4630	17651	30538	1.42	1.0E-109	7682083	NT	Homo sapiens guanylate cyclase activator 1A (celina) (GUCA1A) mRNA
4858	17973	30864	0.94	1.0E-109	RI5400.1	EST_HUMAN	Homo sapiens KIAA0377 gene product (KIAA0377), mRNA
5318	18424	31227	0.5	1.0E-109	AU137282.1	EST_HUMAN	ye48606.f1 Soares infant brain N1B Homo sapiens cDNA clone IMAGE:53057 5'
5332	18438	31190	0.86	1.0E-109	BF973718.1	EST_HUMAN	AU137282 PLAC11 Homo sapiens cDNA clone FLAGE:1006159 5'
5366	18489	31364	2.28	1.0E-109	5174822	NT	602136446FT NIH_MGC 83 Homo sapiens cDNA clone IMAGE:4272922 5'
5688	18783		1.49	1.0E-109	BE178356.1	EST_HUMAN	Homo sapiens placental protein 11 (serine proteinase) (P11) mRNA
6037	25651	32323	0.83	1.0E-109	BF37688.1	EST_HUMAN	RC1-HT0615-200400-022-d04 HT0615 Homo sapiens cDNA
6111	18783		1.29	1.0E-109	BE178356.1	EST_HUMAN	CM1-UT0038-080900-399-R07 UT0038 Homo sapiens cDNA
6485	18550	32769	0.57	1.0E-109	M23442.1	NT	RC1-HT0615-200400-022-d04 HT0615 Homo sapiens cDNA
6485	18550	32800	0.57	1.0E-109	M23442.1	NT	Human Interleukin 4 (IL-4) gene, complete cds
6742	19797	33077	8.08	1.0E-109	AI221385.1	EST_HUMAN	qg80d08.x1 Soares_NFL_T_GBC_S11 Homo sapiens cDNA clone IMAGE:1842111 3'
6933	20157	33478	0.52	1.0E-109	11024711	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
6933	20157	33477	0.52	1.0E-109	11024711	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
7145	18377	31265	0.49	1.0E-109	BE074888.1	EST_HUMAN	RC5-BT0580-170300-021-F08 BT0580 Homo sapiens cDNA
7451	20417	33772	0.93	1.0E-109	AB046811.1	NT	Homo sapiens mRNA for KIAA1591 protein, partial cds
7815	20784	34140	3.31	1.0E-109	11432374	NT	Homo sapiens AT-binding transcription factor 1 (ATBF1), mRNA
7817	20766	34142	5.45	1.0E-109	BF182707.1	EST_HUMAN	601809495FT NIH_MGC 18 Homo sapiens cDNA clone IMAGE:4040279 5'
7817	20766	34143	5.45	1.0E-109	BF182707.1	EST_HUMAN	601809495FT NIH_MGC 18 Homo sapiens cDNA clone IMAGE:4040279 5'
8573	21481	34895	1.37	1.0E-109	AL046784.1	NT	Novel human gene mapping to chromosome 13
8628	21696	35017	1.08	1.0E-109	AW749130.1	EST_HUMAN	PK0-BT0340-091289-002-e05 BT0340 Homo sapiens cDNA
9004	21970		3.99	1.0E-109	AA077468.1	EST_HUMAN	7B18H01 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B18H01
9086	22052	35474	17.25	1.0E-109	BE787540.1	EST_HUMAN	601479417FT NIH_MGC 68 Homo sapiens cDNA clone IMAGE:3882124 5'
9086	22052	35475	17.25	1.0E-109	BE787540.1	EST_HUMAN	601479417FT NIH_MGC 68 Homo sapiens cDNA clone IMAGE:3882124 5'
9593	22555	36005	1.78	1.0E-109	H84860.1	EST_HUMAN	ye90q08.f1 Soares retina N265HR Homo sapiens cDNA clone IMAGE:222110 5' similar to SP:A53481
9705	22558	36113	0.65	1.0E-109	BE397068.1	EST_HUMAN	A53491 BUMETANIDE-SENSITIVE NA-K-Cl COTRANSPORTER - SPINLY;
9705	22658	36114	0.65	1.0E-109	BE397068.1	EST_HUMAN	601289760FT NIH_MGC 8 Homo sapiens cDNA clone IMAGE:3620030 5'
9839	22775	36230	2.5	1.0E-109	F09604.1	EST_HUMAN	HSC1EC121 normalized Infant brain cDNA Homo sapiens cDNA clone c-1ec12
11128	24088	37616	2.42	1.0E-109	BE540909.1	EST_HUMAN	601063030FT NIH_MGC 10 Homo sapiens cDNA clone IMAGE:3449599 5'
11128	24088	37617	2.42	1.0E-109	BE540909.1	EST_HUMAN	601063030FT NIH_MGC 10 Homo sapiens cDNA clone IMAGE:3449599 5'
11158	24116	37642	31.95	1.0E-109	BF994831.1	EST_HUMAN	602080724FT NIH_MGC 31 Homo sapiens cDNA clone IMAGE:4245341 5'

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLASTE Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11459	24402	37950	1.85	1.0E-109	AU121370.1	EST_HUMAN	AU121370 HEMBB1 Homo sapiens cDNA clone HEMBB1002690 5'
11897	24652	38240	2.82	1.0E-109	4502838	NT	Homo sapiens Cheek-Hagashi syndrome 1 (CHS1) mRNA
11735	24621	38199	5.45	1.0E-109	W16510.1	EST_HUMAN	z008b12.r1 Soares. fetal lung, NIH.L19W Homo sapiens cDNA clone IMAGE:301439 5' similar to PR:543969 S43969 p54-beta stress-activated protein kinase - rat ;
11910	24761	38380	1.89	1.0E-109	BE045660.1	EST_HUMAN	h22805.x1 NCI CGAP Lu24 Homo sapiens cDNA clone IMAGE:2855969 3' similar to TR Q82124 Q82124
12125	24994	38597	2.03	1.0E-109	BF339540.1	EST_HUMAN	YGR163W MRNA HOMOLOGUE, COMPLETE CDS ;
12125	24994	38598	2.03	1.0E-109	BF339540.1	EST_HUMAN	602039003FT NCI CGAP Bm64 Homo sapiens cDNA clone IMAGE:4186753 5'
12132	25001	38607	1.95	1.0E-109	AA490568.1	EST_HUMAN	602039003FT NCI CGAP Bm64 Homo sapiens cDNA clone IMAGE:4186753 5'
12395	15276	28300	2.1	1.0E-109	Y17123.1	NT	seq207.r1 Soares. NIHMPu, S1 Homo sapiens cDNA clone IMAGE:823621 5'
12813	15276	28300	2.24	1.0E-109	Y17123.1	NT	Homo sapiens SNF5/INI1 gene, exon 6
12720	25374	31774	1.85	1.0E-109	AB011399.1	NT	Homo sapiens SNF5/INI1 gene, exon 6
3	13124	26022	0.89	1.0E-110	7549804	NT	Homo sapiens gene for AF-6, complete cds
39	13159	26061	4.99	1.0E-110	5803073	NT	Homo sapiens gene for AF-6, complete cds
39	13159	26062	4.99	1.0E-110	5803073	NT	Homo sapiens decarboxylase, cadheronine, type II (DIO2), transcript variant 2, mRNA
109	13124	26022	1.73	1.0E-110	7549804	NT	Homo sapiens leucine-zipper-like transcriptional regulator, 1 (LZTR1), mRNA
294	13598	26516	1.8	1.0E-110	U84590.1	NT	Homo sapiens leucine-zipper-like transcriptional regulator, 1 (LZTR1), mRNA
528	13598	26517	13.41	1.0E-110	U84590.1	NT	Homo sapiens decarboxylase, cadheronine, type II (DIO2), transcript variant 2, mRNA
1184	14225	27181	1	1.0E-110	5031620	NT	Human mRNA for inward rectifier potassium channel, complete cds
1284	14319	27282	0.72	1.0E-110	AB032253.1	NT	Human dystrobrein (DTN) gene, exon 20
1837	14861	27958	1.35	1.0E-110	BE379477.1	EST_HUMAN	Homo sapiens calcitonin receptor-like (CALGRL) mRNA
2073	15090		1.85	1.0E-110	BF508896.1	EST_HUMAN	Homo sapiens BAZ1B mRNA for bromodomain adjacent to zinc finger domain 1B, complete cds
2853	15913		1.05	1.0E-110	4930968	NT	901237545F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3606883 5'
3043	14319	27282	0.88	1.0E-110	AB032253.1	NT	UHF-BI4-aos-5-05-U1.s1 NCI CGAP Sub8 Homo sapiens cDNA clone IMAGE:3085784 3'
							Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
							Homo sapiens BAZ1B mRNA for bromodomain adjacent to zinc finger domain 1B, complete cds
							Homo sapiens Bulon's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and F1P3 (F1P3) genes, complete cds
3103	16160		1.01	1.0E-110	U79027.1	NT	
3209	16284	29185	1.55	1.0E-110	11438041	NT	Homo sapiens pregnancy-zone protein (PZP), mRNA
3209	16284	29186	1.55	1.0E-110	11438041	NT	Homo sapiens pregnancy-zone protein (PZP), mRNA
4231	17260	30145	0.93	1.0E-110	M15918.1	NT	Human autotumorigenic small nuclear ribonucleoprotein E pseudogene
4665	17686	30570	2.11	1.0E-110	AU017213.1	EST_HUMAN	oa32b10.x1 Soares. NFL T_CBC S1 Homo sapiens cDNA clone IMAGE:1627663 3' similar to
4684	17705	30597	4.29	1.0E-110	AU117812.1	EST_HUMAN	SW-N121_RAT P92591 NUCLEAR ENVELOPE PORE MEMBRANE PROTEIN PPM 121 ;
5009	18023		1.94	1.0E-110		NT	AU117812 HEMBA1 Homo sapiens cDNA clone HEMBA1002241 5'
5367	18472	31343	2.23	1.0E-110	BE296406.1	EST_HUMAN	Homo sapiens KIAA1002 protein (KIAA1002), mRNA
							60118710F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028538 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5814	18004	32087	0.78	1.0E-110	BE621068.1	EST_HUMAN	601438377F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3885795 5'
5834	18024	32106	7.98	1.0E-110	11418923	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
5834	18024	32108	7.66	1.0E-110	11418923	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
6878	25670	33226	3.64	1.0E-110	M55112.1	NT	Human cyclic fibrosis transmembrane conductance regulator (CFTR) gene, exon 7
7235	20256	33590	0.59	1.0E-110	BE251496.1	EST_HUMAN	60110388F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350277 5'
7309	20280	33619	0.71	1.0E-110	U09888.1	NT	Human GS2 gene, exon 2
7309	20280	33620	0.71	1.0E-110	U09888.1	NT	Human GS2 gene, exon 2
7545	20508	33887	0.89	1.0E-110	AI560289.1	EST_HUMAN	h12408.x1 NCI CGAP Brn25 Homo sapiens cDNA clone IMAGE:2167407 3' similar to SW:ETV1_HUMAN
7658	20616	33980	10.79	1.0E-110	AV714278.1	EST_HUMAN	P50549 ETS TRANSLOCATION VARIANT 1 ;
7658	20616	33981	10.78	1.0E-110	AV714278.1	EST_HUMAN	AV714278 DCB Homo sapiens cDNA clone DCB0CGE01 5'
7888	20646	34010	2.84	1.0E-110	AB020675.1	NT	AV714278 DCB Homo sapiens cDNA clone DCB0CGE01 5'
7820	20769	34101	1.01	1.0E-110	AU137923.1	EST_HUMAN	Homo sapiens mRNA for KIAA0663 protein, partial cds
9860	22643	36145	0.78	1.0E-110	BE302594.1	EST_HUMAN	AU137923 PLACE1 Homo sapiens cDNA clone PLACE100751 5'
9836	22863	36324	3.25	1.0E-110	AW839394.1	EST_HUMAN	b6801.Y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2905681 5' similar to TR:O77268 077268
10989	23609	37102	3.4	1.0E-110	11432732	NT	EG-114D9.2 PROTEIN ;
10989	24058	37583	2.78	1.0E-110	Y12337.1	NT	QV21-T0053-020400-119-a04 L1T0053 Homo sapiens cDNA
11314	24264	37761	3.18	1.0E-110	BE734357.1	EST_HUMAN	Homo sapiens collectrinase 2 (GALK2), mRNA
11314	24264	37762	3.18	1.0E-110	BE734357.1	EST_HUMAN	H. sapiens mRNA for myosin dystrophy protein kinase like protein
11770	23625	37445	2.48	1.0E-110	AA446528.1	EST_HUMAN	60166604F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3840433 6'
12210	25051	25057	5.81	1.0E-110	BE697218.1	EST_HUMAN	60166604F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3840433 6'
12339	25137	25139	9.66	1.0E-110	AW062258.1	EST_HUMAN	60166604F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3840433 6'
12579	25289	25289	1.72	1.0E-110	AB011399.1	NT	z667002.r1 Soares, Testis_NHT Homo sapiens cDNA clone IMAGE:781288 5' similar to TR:G145816
12706	25913	25913	2.95	1.0E-110	BF336456.1	EST_HUMAN	PM8-NN1032-1-0990-006-112 NN1032 Homo sapiens cDNA
12887	15090	15090	1.34	1.0E-110	BF508696.1	EST_HUMAN	U1H-B4-acc-b-05-0-01a1 NCI CGAP Subst Homo sapiens cDNA clone IMAGE:3085784 3'
176	13277	13277	12.38	1.0E-111	U43701.1	NT	IL0-B70163-040895-094-g10 BT0163 Homo sapiens cDNA
736	13787	13787	3.39	1.0E-111	BF03527.1	EST_HUMAN	Homo sapiens gene for AF-6, complete cds
745	13806	26746	5.89	1.0E-111	8393092	NT	PM8-NN1032-1-0990-006-112 NN1032 Homo sapiens cDNA
827	13880	26934	3.63	1.0E-111	M25142.1	NT	U1H-B4-acc-b-05-0-01a1 NCI CGAP Subst Homo sapiens cDNA clone IMAGE:3085784 3'
2250	15264	28290	1.53	1.0E-111	AF036126.1	NT	Homo sapiens cardiac alpha-myosin heavy chain (MYH6) gene, exons 32 to 34
4357	17384	30266	4.65	1.0E-111	K02268.1	NT	Homo sapiens collagen type IX alpha 1 chain (COL9A1) gene, exons 29, 30, 31, and 32
5293	18298	31160	0.72	1.0E-111	AB043556.1	NT	Human enkephalin B (enkeB) gene, exon 4 and 3' flank and complete cds
5293	18298	31160	0.72	1.0E-111	AB043556.1	NT	Homo sapiens mRNA for neurotic leukemia-related, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5553	18550	31583	0.66	1.0E-111	AA151017.1	EST_HUMAN	z47607.1 Soares_pregnant_uterus NIH/PU Homo sapiens cDNA clone IMAGE:505045 5' similar to gb:M23575 PREGNANCY-SPECIFIC BETA-1 GLYCOPROTEIN C PRECURSOR (HUMAN);
5553	18550	31594	0.66	1.0E-111	AA151017.1	EST_HUMAN	z47607.1 Soares_pregnant_uterus NIH/PU Homo sapiens cDNA clone IMAGE:505045 5' similar to gb:M23575 PREGNANCY-SPECIFIC BETA-1 GLYCOPROTEIN C PRECURSOR (HUMAN);
5714	18508	31986	0.89	1.0E-111	BE867909.1	EST_HUMAN	601449305.1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847655 5'
5837	18927	32111	0.49	1.0E-111	U19069.1	NT	Human two-handed zinc finger protein ZEB mRNA, partial cds
6149	19223	32483	1.5	1.0E-111	AI344679.1	EST_HUMAN	q608g.12x1 NCL CGAP_Kid5 Homo sapiens cDNA clone IMAGE:191574 3' similar to gb:M26893 RAS-RELATED PROTEIN RAL-A (HUMAN);
6837	19890	33185	0.85	1.0E-111	AL040762.1	EST_HUMAN	DKFZp434C1815.1 434 (synonym: Hnss3) Homo sapiens cDNA clone DKFZp434C1815 5'
6978	20201	33531	1.3	1.0E-111	AW294648.1	EST_HUMAN	U14-BW0-ail-4-03-0-J1.31 NCL CGAP_Sud6 Homo sapiens cDNA clone IMAGE:2726525 3'
7405	20379	33724	0.52	1.0E-111	AW933195.1	EST_HUMAN	RC2-BN033-160200-013-508 BN0033 Homo sapiens cDNA
7680	20538	34000	2.57	1.0E-111	BF366228.1	EST_HUMAN	IL2-NT0107-280700-114-E03 NT0101 Homo sapiens cDNA
7772	20725	34097	0.51	1.0E-111	9961253	NT	Homo sapiens ATP-binding cassette, sub-family B (MDR/TAP), member 4 (ABCB4), transcript variant A, mRNA
7779	20732	34104	0.58	1.0E-111	AI761228.1	EST_HUMAN	wf8401.x1 NCL CGAP_K412 Homo sapiens cDNA clone IMAGE:238465 3' similar to gb:104813 CYTOCHROME P450 IIA5 (HUMAN);
7873	20817	34195	0.8	1.0E-111	U80017.1	NT	Homo sapiens basic transcription factor 2 p44 (btf2p-44) gene, partial cds, neuronal apoptosis inhibitory protein (nrip) and survival motor neuron protein (smn) genes, complete cds
8067	21004	34402	1.52	1.0E-111	AA133914.1	EST_HUMAN	zn62a.12.11 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:562774 5' similar to gb:X03740 MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN);
8431	21400	34812	0.82	1.0E-111	AA278968.1	EST_HUMAN	zn79d03.1 NCL CGAP_G0B1 Homo sapiens cDNA clone IMAGE:703732 5' similar to TR.G126410 G1256410 11-ZINC-FINGER TRANSCRIPTION FACTOR 1;
8431	21400	34813	0.82	1.0E-111	AA278968.1	EST_HUMAN	zn79d03.1 NCL CGAP_G0B1 Homo sapiens cDNA clone IMAGE:703732 5' similar to TR.G126410 G1256410 11-ZINC-FINGER TRANSCRIPTION FACTOR 1;
8530	21408	34914	0.55	1.0E-111	11431956	NT	Homo sapiens protein x 0001 (LOC51185), mRNA
8593	21551	34959	3.24	1.0E-111	U66533.1	NT	Human bcl-2-integrin (ITGB4) gene, exon 13
9027	21993	35413	0.77	1.0E-111	11420516	NT	Homo sapiens nuclear factor of activated T-cells, cytoplasmic 2 (NFATC2), mRNA
9128	22094	35522	0.83	1.0E-111	AK024483.1	NT	Homo sapiens mRNA for FLJ00045 protein, partial cds
9160	22126	35632	26.95	1.0E-111	BF214902.1	EST_HUMAN	6018471325.1 NIH_MGC_95 Homo sapiens cDNA clone IMAGE:4078303 5'
9235	22202	35632	15.22	1.0E-111	X17033.1	NT	Human mRNA for integrin alpha-2 subunit
9256	22202	35633	15.22	1.0E-111	X17033.1	NT	Human mRNA for integrin alpha-2 subunit
9443	22407	35844	2.88	1.0E-111	AF091395.1	NT	Homo sapiens Ttd reform mRNA, complete cds
9672	22625	36079	0.46	1.0E-111	BF333210.1	EST_HUMAN	QV2-BT0817-27090-398-409 BT0817 Homo sapiens cDNA

Table 4

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10512	23434	36632	1.96	1.0E-111	AA504180.1	EST_HUMAN	ae58902.s1 NCL CGAP_GCB1 Homo sapiens cDNA clone IMAGE:826170.3 similar to gb.L09235
10540	23462		1.69	1.0E-111	D10833.1	NT	VACUOLAR ATP SYNTHASE CATALYTIC SUBUNIT A, UBQUITOUS (HUMAN);
10595	23557	37057	6.39	1.0E-111	AA131248.1	EST_HUMAN	Homo sapiens RGH1 gene, retrovirus-like element
11110	24070	37592	3.4	1.0E-111	AW296467.1	EST_HUMAN	251101.1 Soares, pregnant, uterine, NHFPU Homo sapiens cDNA clone IMAGE:503345.6'
11288	24238		2.64	1.0E-111	AW374340.1	EST_HUMAN	UHH-BW0-aig-g-04-Q-UJ1.s1 NCL CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2730276.3'
11383	24330	37659	2.98	1.0E-111	U68159.1	NT	IL0-CT0031-221099-113-068 CT0031 Homo sapiens cDNA
12108	25018	38618	4.77	1.0E-111	11417901	NT	Human thrombospondin receptor (NPL) gene, exons 1,2,3,4,5 and 8
12955	18298	31160	1.75	1.0E-111	AB035356.1	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MNT), mRNA
610	13875	26590	0.9	1.0E-112	4501854	NT	Homo sapiens acetyl-Coenzyme A carboxylase beta (ACACB), mRNA
612	13877	26592	5.51	1.0E-112	U29103.1	NT	Homo sapiens acetyl-Coenzyme A carboxylase beta (ACACB), mRNA
612	13877	26593	5.51	1.0E-112	U29103.1	NT	Homo sapiens acetyl-Coenzyme A carboxylase beta (ACACB), mRNA
633	13688	26518	1.91	1.0E-112	BF506039.1	EST_HUMAN	Human steroidogenic acute regulatory protein (STAR) gene, exon 5
633	13688	26619	1.91	1.0E-112	BF506039.1	EST_HUMAN	UHH-B14-act-g-04-Q-UJ1.s1 NCL CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3068023.3'
1003	14054	27008	1.21	1.0E-112	AF157623.1	NT	Homo sapiens mRNA for neurabin 1-alpha protein, complete cds
1083	14109	27058	1.85	1.0E-112	P52742	SWISSPROT	Homo sapiens HTRA serine protease (PRSS11) gene, complete cds
1692	14722	27703	3.1	1.0E-112	7682125	NT	ZINC FINGER PROTEIN 135
1692	14722	27704	3.1	1.0E-112	7682125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
2207	15322	28242	1.08	1.0E-112	A1766925.1	EST_HUMAN	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
2515	15518	28541	1.34	1.0E-112	BE968590.1	EST_HUMAN	W60068.1 NCL CGAP_K4d12 Homo sapiens cDNA clone IMAGE:2406811.3'
3094	16152		3.53	1.0E-112	4504116	NT	80114267.1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3846858.5'
3371	16421	28646	1.07	1.0E-112	A1623511.1	EST_HUMAN	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
3388	16938	28649	0.89	1.0E-112	BE076073.1	EST_HUMAN	W445b12.1 NCL CGAP_P122 Homo sapiens cDNA clone IMAGE:2418335.3' similar to gb.M81650_maf1
4634	17655	30542	0.79	1.0E-112	4504116	NT	SEMENOGELIN 1 PROTEIN PRECURSOR (HUMAN);
4784	17803	30694	5.01	1.0E-112	AB037832.1	NT	MR2-BT0590-090300-113-058 BT0590 Homo sapiens cDNA
4784	17803	30695	5.01	1.0E-112	AB037832.1	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4784	17803	30695	5.01	1.0E-112	AB037832.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
5750	18844	32027	38.43	1.0E-112	U46046.1	EST_HUMAN	Homo sapiens mRNA for KIAA1411 protein, partial cds
6195	19289	32504	1.28	1.0E-112	AF14973.1	NT	Y95607.1 Soares melanocytes 2NBHM Homo sapiens cDNA clone IMAGE:273229.5'
6288	19341	32573	0.89	1.0E-112	AW502437.1	EST_HUMAN	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
6288	19341	32574	0.89	1.0E-112	AW502437.1	EST_HUMAN	UHH-BR09-aig-g-06-Q-UJ1.1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3075658.5'
6376	19446	32687	0.9	1.0E-112	BE741666.1	EST_HUMAN	UHH-BR09-aig-g-06-Q-UJ1.1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3075658.5'
6603	19862	32635	0.83	1.0E-112	BF072815.1	EST_HUMAN	801150471.1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948557.5'
6792	19846	33130	0.74	1.0E-112	BE273103.1	EST_HUMAN	602162046.1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4268420.6'
6792	19846	33130	0.74	1.0E-112	BE273103.1	EST_HUMAN	801142765.1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3606508.5'

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF-SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLASTE Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6792	18946	33131	0.74	1.0E-112	BE273103.1	EST_HUMAN	6011427595F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506508 5'
7018	20144	33461	1.23	1.0E-112	BF574235.1	EST_HUMAN	602131405F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4270921 5'
7362	20332	33682	0.66	1.0E-112	ALJ043299.1	EST_HUMAN	DKFZp434M0523.1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434M0523 5'
7559	20522	33879	1.62	1.0E-112	11416777	NT	Homo sapiens solute carrier family 6 (neurotransmitter transporter, L-proline), member 7 (SLC6A7), mRNA
7559	20522	33880	1.62	1.0E-112	11416777	NT	Homo sapiens solute carrier family 6 (neurotransmitter transporter, L-proline), member 7 (SLC6A7), mRNA
8535	21503	34921	1.93	1.0E-112	AU118051.1	EST_HUMAN	AU118051 HEMBA1 Homo sapiens cDNA clone HEMBA1002773 5'
8309	22274	35705	2.56	1.0E-112	BE867635.1	EST_HUMAN	60143151F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847285 5'
8309	22274	35706	2.56	1.0E-112	BE867635.1	EST_HUMAN	60143151F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3847285 5'
10253	23178	36665	2.18	1.0E-112	BF111413.1	EST_HUMAN	7300g07.x1 Scores_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3525020 3' similar to TR.Q9VWV35 Q9VWV35 CG8743 PROTEIN.
11132	24092	37821	2.83	1.0E-112	AW863327.1	EST_HUMAN	MR3-SN009-100400-109-012 SN009 Homo sapiens cDNA
11205	24245	37772	2.35	1.0E-112	AJ249900.1	NT	Homo sapiens mRNA for secreted modular calcium-binding protein (smc-1 gene)
11433	24377	37917	1.77	1.0E-112	BE280479.1	EST_HUMAN	60115332F1 NIH_MGC_271 Homo sapiens cDNA clone IMAGE:3136989 5'
11518	24459	38009	3.59	1.0E-112	AW377870.1	EST_HUMAN	PMO-CT0237-141099-001-H02 CT0237 Homo sapiens cDNA
12095	24966	38563	6.59	1.0E-112	M20707.1	NT	Human kappa-immunoglobulin germline pseudogene (Chr22.4) variable region (subgroup V kappa II)
744	13805	26744	5.37	1.0E-113	AJ655596.1	EST_HUMAN	ac9501.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1953625 3'
744	13805	26745	5.37	1.0E-113	AJ655596.1	EST_HUMAN	ac9501.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1953625 3'
941	13954	26946	5.76	1.0E-113	MT11965.1	NT	Human X-linked phosphoglycerate kinase gene, exon 8
1543	14576	27548	3.01	1.0E-113	AJ655596.1	EST_HUMAN	ac9501.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1953625 3'
1956	15821	27680	1.29	1.0E-113	AF240775.1	NT	Homo sapiens eIF4E-transporter mRNA, complete cds
2106	15123	28143	0.89	1.0E-113	BF515218.1	EST_HUMAN	JH4-BW1-en4-03-0-J131 NCL_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3082876 3'
3147	16204	29118	1.16	1.0E-113	AJ223648.1	NT	Homo sapiens mRNA for putative RNA helicase, 3' end
5316	26748	29118	1.54	1.0E-113	BE780858.1	EST_HUMAN	601469495F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3872536 5'
5570	18697	31626	6.88	1.0E-113	AU127214.1	EST_HUMAN	AU127214 NT2RP2 Homo sapiens cDNA clone NT2RP2000307 5'
5916	19002	32193	0.54	1.0E-113	BE789172.1	EST_HUMAN	601476396F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3379405 5'
5916	19002	32194	0.54	1.0E-113	BE789172.1	EST_HUMAN	601476396F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3379405 5'
6031	19114	32317	4.18	1.0E-113	AU140291.1	EST_HUMAN	AU140291 PLACE2 Homo sapiens cDNA clone PLACE2000274 5'
6061	19142	32354	0.97	1.0E-113	AF016535.1	NT	Homo sapiens P-glycoprotein (mdr1) mRNA, complete cds
6188	19263	32469	2.42	1.0E-113	11525737	NT	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polysaccharide N-acetyl-galactosaminyltransferase 8 (GalNAc-T8) (GALNT8), mRNA

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6280	19352	32587	0.82	1.0E-113	9961249	NT	Homo sapiens ATP-binding cassette, sub-family B (MDR/ITAP), member 4 (ABCBA4), transcript variant B, mRNA
6290	19352	32588	0.62	1.0E-113	9961249	NT	Homo sapiens ATP-binding cassette, sub-family B (MDR/ITAP), member 4 (ABCBA4), transcript variant B, mRNA
6449	19514	32764	0.89	1.0E-113	6036002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
6449	19514	32765	0.89	1.0E-113	6036002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
7543	20506	33865	0.72	1.0E-113	BE262161.1	EST_HUMAN	601152078F1 NIH_MGC, 19 Homo sapiens cDNA clone IMAGE:3608362 5'
7543	20506	33866	0.72	1.0E-113	BE262161.1	EST_HUMAN	601152078F1 NIH_MGC, 19 Homo sapiens cDNA clone IMAGE:3608362 5'
9450	22414	35850	2.93	1.0E-113	BE382842.1	EST_HUMAN	601297709F1 NIH_MGC, 19 Homo sapiens cDNA clone IMAGE:3627654 5'
9450	22414	35851	2.93	1.0E-113	BE382842.1	EST_HUMAN	601297709F1 NIH_MGC, 19 Homo sapiens cDNA clone IMAGE:3627654 5'
9756	22697		0.7	1.0E-113	BE772697.1	EST_HUMAN	RC1-FT0134-290600-021-c02 FT0134 Homo sapiens cDNA
10190	23115	36599	1.3	1.0E-113	11428387	NT	Homo sapiens transmembrane protein 2 (TMEM2), mRNA
10220	23216	36599	0.73	1.0E-113	M21836.1	NT	Human erg protein (erg-related gene) mRNA, complete cds
10410	23332	36817	0.77	1.0E-113	5453397	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
10410	23332	36818	0.77	1.0E-113	5453397	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
11457	24400	37948	1.81	1.0E-113	AW500319.1	EST_HUMAN	U1HF-5N0-alk-b-12-Q1.r1 NIH_MGC, 50 Homo sapiens cDNA clone IMAGE:3077326 5'
11486	24409	37956	3	1.0E-113	AW630291.1	EST_HUMAN	h8r1a09.y1 NCL CGAP_GU1 Homo sapiens cDNA clone IMAGE:2969176 5' similar to TR-O60327 O60327 KIAA0884 PROTEIN;
11486	24408	37957	3	1.0E-113	AW630291.1	EST_HUMAN	h8r1a09.y1 NCL CGAP_GU1 Homo sapiens cDNA clone IMAGE:2969176 5' similar to TR-O60327 O60327 KIAA0884 PROTEIN;
11592	24530	38087	2.94	1.0E-113	BE282688.1	EST_HUMAN	nc80b03.1 NCL CGAP_GG1 Homo sapiens cDNA clone IMAGE:2888368 5'
11826	24709	38282	3.1	1.0E-113	AA580720.1	EST_HUMAN	P39748 FLAP ENDONUCLEASE-1;
11826	24709	38283	3.1	1.0E-113	AA580720.1	EST_HUMAN	nc80b03.1 NCL CGAP_GG1 Homo sapiens cDNA clone IMAGE:797069 5' similar to SW-FEN1_HUMAN
80	13179	26092	0.65	1.0E-114	Y17151.2	NT	P39748 FLAP ENDONUCLEASE-1;
80	13179	26093	0.65	1.0E-114	Y17151.2	NT	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)
80	13179	26094	0.65	1.0E-114	Y17151.2	NT	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)
646	13712	26634	5.97	1.0E-114	T70551.1	EST_HUMAN	yt15c01.s1 Soares fetal liver spleen cDNA clone IMAGE:105288 3' similar to gb-A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN) contains Alu repetitive element;
1072	14117	27068	1.76	1.0E-114	8923087	NT	Homo sapiens hypothetical protein FLJ20080 (FLJ20080), mRNA
1316	14351	27319	5	1.0E-114	7657529	NT	Homo sapiens hypodermal tumor deletion region protein 1 (RTDR1), mRNA
1648	14680	27653	1.79	1.0E-114	6931094	NT	Homo sapiens trichothiodystrophy maintenance deficient 3 (MCMK3), mRNA

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1581	14713	27691	5.92	1.0E-114	6878073	NT	Homo sapiens nucleoporin-like protein, 1 (NLP-1), mRNA
3148	18205	28119	2.91	1.0E-114	X04096.1	EST_HUMAN	Human gene for cathepsin (EC 1.11.1.6) exon 2 mapping to chromosome 11, band p13
3187	18242	29160	1.28	1.0E-114	BF206374.1	EST_HUMAN	60186892P1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4100214 5'
4044	17082	29880	1.25	1.0E-114	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
4417	17444	30335	0.78	1.0E-114	J03171.1	NT	Human interferon-alpha receptor (HuIFN-alpha-Rec) mRNA, complete cds
5228	18236	31110	0.99	1.0E-114	AA19466.1	EST_HUMAN	2050605.1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:628832 5' similar to contains
5474	18575	31483	1.47	1.0E-114	4506880	NT	Homo sapiens serpin domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A) mRNA
5474	18575	31484	1.47	1.0E-114	4506880	NT	Homo sapiens serpin domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A) mRNA
5678	18771	31943	1	1.0E-114	8287201	NT	Homo sapiens delphin, heavy polypeptide-like 1 (CLTCL1), transcript variant 2, mRNA
8354	19423	32865	0.51	1.0E-114	Z86288.1	NT	H sapiens isoform 1 gene for L-type calcium channel, exon 20
7191	18422	31224	0.54	1.0E-114	4759163	NT	Homo sapiens sparc/osteonectin, cwc1 and kazal-like domains proteoglycan (lestican) (SPOCK) mRNA
7290	20014		1.01	1.0E-114	AB041533.1	NT	Homo sapiens HGMOGT-1 mRNA for sperm antigen, complete cds
7450	20416	33770	1.08	1.0E-114	AU134187.1	EST_HUMAN	AU134187 OVARC1 Homo sapiens cDNA clone OVARC1001444 5'
7450	20416	33771	1.08	1.0E-114	AU134187.1	EST_HUMAN	AU134187 OVARC1 Homo sapiens cDNA clone OVARC1001444 5'
7469	20464	33824	5.65	1.0E-114	Y18000.1	NT	Homo sapiens NF2 gene
7469	20464	33825	5.65	1.0E-114	Y18000.1	NT	Homo sapiens NF2 gene
8223	21192	34600	1.87	1.0E-114	4557600	NT	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, alpha 2 (GABRA2) mRNA
8507	21475	34898	1.65	1.0E-114	A1363139.1	EST_HUMAN	q68406.x1 NCI CGAP Brn28 Homo sapiens cDNA clone IMAGE:2017163 3'
8507	21475	34899	1.65	1.0E-114	A1363139.1	EST_HUMAN	q68406.x1 NCI CGAP Brn28 Homo sapiens cDNA clone IMAGE:2017163 3'
9049	22015	35439	3.38	1.0E-114	U63041.1	NT	Human neural cell adhesion molecule CD56 mRNA, complete cds
9119	22085	35514	5.81	1.0E-114	AB011133.1	NT	Homo sapiens mRNA for KIAA0561 protein, partial cds
9119	22085	35515	5.81	1.0E-114	AB011133.1	NT	Homo sapiens mRNA for KIAA0561 protein, partial cds
8353	22318	35744	0.42	1.0E-114	AB046784.1	NT	Homo sapiens mRNA for KIAA1564 protein, partial cds
9537	22500	35948	0.61	1.0E-114	BF106832.1	EST_HUMAN	786912.x1 Scores NSF FR_3W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3526847 3' similar to
9789	22710		14.09	1.0E-114	AF032745.1	EST_HUMAN	TRC09JHNE OBUJHNE TRANSMEMBRANE PROTEIN 2 ;
9818	21140	34546	3.34	1.0E-114	AF077754.1	NT	q63065.x1 NIH_MGC_2 Homo sapiens cDNA clone IMAGE:2846744 5'
8506	22858		1.15	1.0E-114	M13536.1	NT	Homo sapiens tyrosine kinase p80c-src (SRC) gene, exon 12 and partial cds
10488	23420	35919	0.95	1.0E-114	BE970004.1	EST_HUMAN	Human ceruloplasmin mRNA
10522	23420	35942	1.42	1.0E-114	AL163227.2	NT	60148752P1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3855500 5'
							Homo sapiens chromosome 21 segment HS21C027

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10907	23827	37340	0.87	1.0E-114	BE171884.1	EST_HUMAN	MRQ-HT0559-250200-002-d07 H70559 Homo sapiens cDNA
11140	24100						bat3a12.v1 NIH_MGC 20 Homo sapiens cDNA clone IMAGE:2000080 5' similar to gb:K17209 40S RIBOSOMAL PROTEIN S4 (HUMAN); gb:M20632 Mouse L1 Rep3 protein mRNA from a repetitive element, complete (MOUSE);
11524	24465	38018	15.04	1.0E-114	BE302886.1	EST_HUMAN	AV733452 cda Homo sapiens cDNA clone cDABA08 5'
11524	24465	38019	3.01	1.0E-114	AV733454.1	EST_HUMAN	AV733454 cda Homo sapiens cDNA clone cDABA08 5'
12819	25974		2.9	1.0E-114	11418041.NT	EST_HUMAN	Homo sapiens TNF-inducible protein CG12.1 (CG12.1), mRNA
12859	25464	31725	3.55	1.0E-114	11034850.NT	EST_HUMAN	Homo sapiens hypothetical protein (DJ1042K10.2), mRNA
12859	25464	31726	3.55	1.0E-114	11034850.NT	EST_HUMAN	Homo sapiens hypothetical protein (DJ1042K10.2), mRNA
241	13144	26044	2.83	1.0E-115	4758111.NT	EST_HUMAN	Homo sapiens HLA-B associated transcript-1 (D6881E) mRNA
130	13235	29165	2.37	1.0E-115	4505938.NT	EST_HUMAN	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220KD) (POLR2A) mRNA
134	13239		3.38	1.0E-115	4557867.NT	EST_HUMAN	Homo sapiens keratin 18 (KRT18) mRNA
202	13386	26313	5.22	1.0E-115	AW604755.1	EST_HUMAN	QV4-UM0094-300300-155-508 UM0094 Homo sapiens cDNA
537	13608	26526	1.12	1.0E-115	AI339206.1	EST_HUMAN	q0601.x1 NCI_CGAP_G44 Homo sapiens cDNA clone IMAGE:1948809 3' similar to TR:O00538 O00538 TTF-INTERACTING PEPTIDE 5;
537	13608	26527	1.12	1.0E-115	AI339206.1	EST_HUMAN	TTF-INTERACTING PEPTIDE 5;
787	13948	26792	0.78	1.0E-115	5174702.NT	EST_HUMAN	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
787	13948	26793	0.78	1.0E-115	5174702.NT	EST_HUMAN	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
789	13948	26795	60.69	1.0E-115	4503794.NT	EST_HUMAN	Homo sapiens ferritin, heavy polypeptide 1 (FTH1) mRNA
1551	14593	27586	1.46	1.0E-115	AF229180.1	EST_HUMAN	Homo sapiens alpha-aminoadipate semialdehyde synthase mRNA, complete cds
1551	14593	27587	1.46	1.0E-115	AF229180.1	EST_HUMAN	Homo sapiens alpha-aminoadipate semialdehyde synthase mRNA, complete cds
1558	14884	27881	1.24	1.0E-115	U78027.1	EST_HUMAN	Homo sapiens Bruden's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44) and F1P3 (F1P3) genes, complete cds
2853	15923		1.7	1.0E-115	AW804759.1	EST_HUMAN	QV4-UM0094-300300-155-508 UM0094 Homo sapiens cDNA
3132	16189	29099	2.74	1.0E-115	AI245922.1	EST_HUMAN	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
3132	16189	29100	2.74	1.0E-115	AI245922.1	EST_HUMAN	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
3486	46532	29457	2.07	1.0E-115	AI277892.1	EST_HUMAN	Homo sapiens partial TTN gene for titin
4072	17708	30002	4.75	1.0E-115	AB002348.2	EST_HUMAN	Homo sapiens mRNA for KIAA0350 protein, partial cds
4295	17524	30204	0.86	1.0E-115	AL137163.1	EST_HUMAN	Novel human gene mapping to chromosome X
4429	17456	30347	3.89	1.0E-115	6912659.NT	EST_HUMAN	Homo sapiens si2-like 3 (SIRI3), mRNA
4465	17497	30378	3.73	1.0E-115	4758279.NT	EST_HUMAN	Homo sapiens EphA4 (EPHA4) mRNA
4702	17723	30616	2.53	1.0E-115	AL09857.1	EST_HUMAN	Novel human mRNA from chromosome 1, which has similarities to BA12 genes
4702	17723	30617	2.53	1.0E-115	AL09857.1	EST_HUMAN	Novel human mRNA from chromosome 1, which has similarities to BA12 genes

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4943	17959	30849	2.57	1.0E-115	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C088
4943	17959	30850	2.57	1.0E-115	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C088
5420	18323	31401	9.81	1.0E-115	AW670335.1	EST_HUMAN	EST1382416 IMAGE resequences, MAGK Homo sapiens cDNA
5498	18988	31510	1.06	1.0E-115	BF665397.1	EST_HUMAN	602119349FT NIH_MGC 56 Homo sapiens cDNA clone IMAGE:4278738 5'
5620	18716	31875	1.68	1.0E-115	11425128	NT	Homo sapiens similar to ER to nucleus signalling 1 (H. sapiens) (LOC83433). mRNA
5620	18716	31876	1.68	1.0E-115	11425128	NT	Homo sapiens similar to ER to nucleus signalling 1 (H. sapiens) (LOC83433). mRNA
5775	18887	32049	1.1	1.0E-115	AB287899.1	EST_HUMAN	au64601.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519595 3' similar to gbL07807 DYNAMIN-1 (HUMAN);
5775	18887	32050	1.1	1.0E-115	AB287899.1	EST_HUMAN	au64601.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519595 3' similar to gbL07807 DYNAMIN-1 (HUMAN);
6391	19459	32704	0.68	1.0E-115	11426786	NT	Homo sapiens sperm surface protein (HSP). mRNA
6391	19459	32705	0.68	1.0E-115	11426786	NT	Homo sapiens sperm surface protein (HSP). mRNA
6395	19598	32861	19.47	1.0E-115	11426038	NT	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC83436). mRNA
6678	19735	33010	1.82	1.0E-115	7661883	NT	Homo sapiens KIAA0054 gene product; Helicase (KIAA0054). mRNA
6678	19735	33011	1.82	1.0E-115	7661883	NT	Homo sapiens KIAA0054 gene product; Helicase (KIAA0054). mRNA
7120	20054	33358	0.57	1.0E-115	T86774.1	EST_HUMAN	Yd86b08.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:115095 5' similar to SP-DPOG_YEAST P15801 DNA POLYMERASE GAMMA;
7493	20468	33816	1.22	1.0E-115	AB076598.1	EST_HUMAN	0231a06.x1 Soares total fetus_Nb21F8_9w Homo sapiens cDNA clone IMAGE:1678914 3'
7493	20468	33817	1.22	1.0E-115	AB076598.1	EST_HUMAN	0231a06.x1 Soares total fetus_Nb21F8_9w Homo sapiens cDNA clone IMAGE:1678914 3'
7698	20598	33962	7.12	1.0E-115	AB023212.1	NT	Homo sapiens mRNA for KIAA0965 protein, partial cds
8500	21468	34894	11.55	1.0E-115	BE830187.1	EST_HUMAN	RC8-ET0081-130700-011-501 ET0081 Homo sapiens cDNA
8500	21468	34895	11.55	1.0E-115	BE830187.1	EST_HUMAN	RC8-ET0081-130700-011-501 ET0081 Homo sapiens cDNA
9184	22130	35557	4.68	1.0E-115	11434772	NT	Homo sapiens eukaryotic translation initiation factor 4B (EIF4B). mRNA
10133	23059	36536	0.64	1.0E-115	BF382028.1	EST_HUMAN	001816352F1 NIH_MGC 58 Homo sapiens cDNA clone IMAGE:4050108 5'
10398	23282	36756	1.74	1.0E-115	AB002336.1	NT	Human mRNA for KIAA0338 gene, partial cds
10398	23282	36759	1.74	1.0E-115	AB002336.1	NT	Human mRNA for KIAA0338 gene, partial cds
10356	23282	36759	1.74	1.0E-115	AB002336.1	EST_HUMAN	g969a09.x1 Soares_NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:1843336 3'
10887	23807	37312	1.02	1.0E-115	AB221878.1	EST_HUMAN	g969a09.x1 Soares_NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:1843336 3'
10887	23807	37313	1.02	1.0E-115	AB221878.1	EST_HUMAN	g969a09.x1 Soares_NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:1843336 3'
10884	23814	37321	0.7	1.0E-115	AB24687.1	EST_HUMAN	0112a07.x1 NC1 CGAP CLT1 Homo sapiens cDNA clone IMAGE:2118038 3' similar to TR-O16128 O16128 PHENYLALANYL TRNA SYNTHETASE;
10920	23840	37356	0.73	1.0E-115	BE986295.1	EST_HUMAN	001508787F1 NIH_MGC 71 Homo sapiens cDNA clone IMAGE:3911610 5'
11072	24034	37558	3.4	1.0E-115	AW571544.1	EST_HUMAN	xx32038.x1 NC1 CGAP LH1 Homo sapiens cDNA clone IMAGE:2639229 3' similar to SW-CATP_CANFA P10463 CALCYPHOSINE;

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	OPF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLASTE Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11589	24527	38083	2.1	1.0E-115	BE045890.1	EST_HUMAN	h94610.x1 NCL CGAP_Par3 Homo sapiens cDNA clone IMAGE:3123186 3' similar to TR:O88378 O88378 PRP4 PROTEIN KINASE HOMOLOG ;
11589	24527	38084	2.1	1.0E-115	BE045890.1	EST_HUMAN	h94610.x1 NCL CGAP_Par3 Homo sapiens cDNA clone IMAGE:3123186 3' similar to TR:O88378 O88378 PRP4 PROTEIN KINASE HOMOLOG ;
11726	24612	38189	2.06	1.0E-115	4502528	NT	Homo sapiens calcium channel, voltage-dependent, alpha 1E subunit (CACNA1E) mRNA
12191	25036		1.52	1.0E-115	AF240788.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
574	13843	26557	1.02	1.0E-116	BE275502.1	EST_HUMAN	601121347F7F NIH_MGC 20 Homo sapiens cDNA clone IMAGE:2888975 5'
801	13893	26807	2.44	1.0E-116	4507334	NT	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
860	13916		0.68	1.0E-116	4507334	NT	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
2013	15034	28044	2.89	1.0E-116	5174478	NT	Homo sapiens perlecanin (PONT) mRNA
2013	15034	28045	2.89	1.0E-116	5174478	NT	Homo sapiens perlecanin (PONT) mRNA
2316	15327	28350	1.86	1.0E-116	5453941	NT	Homo sapiens protein phosphatase, EF hand calcium-binding domain 1 (PPEF1) mRNA
2348	15357		1.68	1.0E-116	U78308.1	NT	Human olfactory receptor olfr17-201-1 (OR17-201-1) gene, olfactory receptor olfr17-32 (OR17-32) gene and olfactory receptor pseudo, olfr17-01 (OR17-01) pseudogene, complete cds
2462	15468	28489	2.89	1.0E-116	AB018333.1	NT	Homo sapiens mRNA for KIAA0790 protein, partial cds
2744	15829	28754	3.32	1.0E-116	BE889256.1	EST_HUMAN	EST08405 Fetal brain, Stratagene (calf8838206) Homo sapiens cDNA clone IMAGE:3914600 5' containing L1 repeat
3180	16235		0.95	1.0E-116	T07515.1	EST_HUMAN	EST08405 Fetal brain, Stratagene (calf8838206) Homo sapiens cDNA clone IMAGE:3914600 5' containing L1 repeat
3189	16244	29161	5.44	1.0E-116	L77570.1	NT	Homo sapiens DiGeorge syndrome critical region, centromeric end
3189	16244	29162	5.44	1.0E-116	L77570.1	NT	Homo sapiens DiGeorge syndrome critical region, centromeric end
4405	17433	30318	2.36	1.0E-116	5031954	NT	Homo sapiens sodium phosphate transporter 3 (NPT3) mRNA
4892	17909	30798	2.03	1.0E-116	AB07096.1	EST_HUMAN	PM-BT135-070-098-016 BT135 Homo sapiens cDNA
5230	18238	31111	0.92	1.0E-116	AJ243213.1	NT	Homo sapiens partial 6-HT4 receptor gene, exons 2 to 5
5351	18456	31326	0.92	1.0E-116	AJ302062.1	EST_HUMAN	q11904.x1 NCL CGAP_Lus Homo sapiens cDNA clone IMAGE:1898895 3' similar to contains element MER25 repetitive element ;
6090	19169	32384	2.18	1.0E-116	W42822.1	EST_HUMAN	zc24407.r1 Soares_senescent_fibroblasts_NBHSF Homo sapiens cDNA clone IMAGE:323245 5' similar to SW:MDHM_MOUSE P08249 MALATE DEHYDROGENASE, MITOCHONDRIAL PRECURSOR ;
6336	19405	32645	1.8	1.0E-116	AB048856.1	NT	Homo sapiens mRNA for KIAA1635 protein, partial cds
6336	19405	32646	1.8	1.0E-116	AB048856.1	NT	Homo sapiens mRNA for KIAA1635 protein, partial cds
6408	19478	32723	0.95	1.0E-116	BE409097.1	EST_HUMAN	Homo sapiens mRNA for KIAA1635 protein, partial cds
6849	19707	32982	0.73	1.0E-116	5729867	NT	601302281F7F NIH_MGC 21 Homo sapiens cDNA clone IMAGE:3639784 5'
6849	19707	32983	0.73	1.0E-116	5729867	NT	Homo sapiens hsd domain and RLD 2 (HERC2), mRNA
6849	19707	32983	0.73	1.0E-116	5729867	NT	Homo sapiens hsd domain and RLD 2 (HERC2), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6663	19720		2.08	1.0E-116	BE168133.1	EST_HUMAN	MIR2-HT0379-210200-102-604 HT0379 Homo sapiens cDNA
7130	20106	33417	1.99	1.0E-116	C02944.1	EST_HUMAN	C02944 Human heart cDNA (Ynakamura) Homo sapiens cDNA clone 3NH00567
7410	20377	33728	7.19	1.0E-116	AV176314.1	EST_HUMAN	AV176314 DCB Homo sapiens cDNA clone DCB0005
8712	21680	35106	1.32	1.0E-116	AA354256.1	EST_HUMAN	EST162885 Jurkat T-cells V Homo sapiens cDNA 5' end similar to keratin 2
8712	21680	35107	1.32	1.0E-116	AA354256.1	EST_HUMAN	EST162885 Jurkat T-cells V Homo sapiens cDNA 5' end similar to keratin 2
8824	21791	35213	1.04	1.0E-116	AG041561.1	EST_HUMAN	GM-RT0433-090299-075 BT043 Homo sapiens cDNA
9290	22256	35686	1.39	1.0E-116	BE595507.1	EST_HUMAN	q109d05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:3800680 5'
9455	22419	35957	2.9	1.0E-116	AI216352.1	EST_HUMAN	q109d05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1844168 3' similar to p15-353741_nsl1 FIBULIN-1 ISOFORM A PRECURSOR (HUMAN);
10033	22660	36428	1.49	1.0E-116	11418648	NT	Homo sapiens laminin, alpha 2 (merosin, congenital muscular dystrophy) (LAMA2), mRNA
10633	23355	37055	0.71	1.0E-116	AJ277441.1	NT	Homo sapiens partial mRNA for xylosyltransferase 1 (XT-1) gene
10633	23355	37056	0.71	1.0E-116	AJ277441.1	NT	Homo sapiens partial mRNA for xylosyltransferase 1 (XT-1) gene
10713	23635	37128	0.91	1.0E-116	BE169913.1	EST_HUMAN	QV4-HT0401-281269-063-c09 HT0401 Homo sapiens cDNA
11046	24010	37536	2.44	1.0E-116	BF335948.1	EST_HUMAN	GM2-CT0482-300600-349-c06 CT0482 Homo sapiens cDNA
11470	24413	37662	2.63	1.0E-116	AI367140.1	EST_HUMAN	q147604.x1 Soares_NIHMPu_S1 Homo sapiens cDNA clone IMAGE:1835102 3' similar to WP:B0495.7 CED1765
12804	25840		1.66	1.0E-116	AL134889.1	EST_HUMAN	DKFZp762L1110_r1 762 (synonym: hme2) Homo sapiens cDNA clone DKFZp762L1110 5'
560	13630	26547	1.04	1.0E-117	4826638	NT	Homo sapiens acetyl-Coenzyme A carboxylase alpha (ACACA), mRNA
1076	15555	27076	0.86	1.0E-117	AF124393.1	NT	Mus musculus fragile-X-related protein 1 (Forth) gene, exons 13a through 15
1228	14287	27224	2.2	1.0E-117	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1848	14874	27870	2.04	1.0E-117	MI18816.1	NT	Human apolipoprotein B-100 (apoB) gene, exon 10
2221	15235	28259	1.26	1.0E-117	AW857699.1	EST_HUMAN	EST1389768 MAGE resequences, MAGE Homo sapiens cDNA
3281	16335	28255	1.51	1.0E-117	AA978114.1	EST_HUMAN	0932ct11.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1578548 3'
4016	17055	29058	5.89	1.0E-117	AA316723.1	EST_HUMAN	EST189414 HCC cell line (metastasis to liver in mouse) Homo sapiens cDNA 5' end similar to ribosomal protein L29
4371	17368	30278	2.1	1.0E-117	8659664	NT	Homo sapiens collagen, type IV, alpha 5 (Alport syndrome) (COL4A5), mRNA
4608	17620	30521	1.95	1.0E-117	ALD42120.1	EST_HUMAN	DKFZp434C1120_r1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434C1120 5'
4755	17775	30670	1.19	1.0E-117	X99670.1	NT	H.sapiens mRNA for TPO16 protein
4755	17775	30671	1.19	1.0E-117	X99670.1	NT	H.sapiens mRNA for TPO16 protein
4547	17864	30737	10.31	1.0E-117	AF14304.2	NT	Homo sapiens Scar2 (SCAR2) gene, partial cds
4547	17864	30738	10.31	1.0E-117	AF14304.2	NT	Homo sapiens Scar2 (SCAR2) gene, partial cds
4977	17992	30981	4.01	1.0E-117	AB020973.1	NT	Homo sapiens mRNA for KIAA0869 protein, complete cds
5421	18524	31402	3.29	1.0E-117	BE120508.1	EST_HUMAN	601562657F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3832214 5'
7148	18380	31269	0.53	1.0E-117	AA323348.1	EST_HUMAN	EST126111 Cerebellum II Homo sapiens cDNA 5' end similar to zinc finger domain

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7683	20641	34004	4.55	1.0E-117	L76571.1	NT	Homo sapiens nuclear hormone receptor (shr) gene, 3' end of cds
7683	20641	34005	4.55	1.0E-117	L76571.1	NT	Homo sapiens nuclear hormone receptor (shr) gene, 3' end of cds
7795	20747	34121	3.71	1.0E-117	AV717788.1	EST_HUMAN	AV717788 DGB Homo sapiens cDNA clone DCBBAE01 5'
7795	20747	34122	3.71	1.0E-117	AV717788.1	EST_HUMAN	AV717788 DGB Homo sapiens cDNA clone DCBBAE01 5'
8311	21280	34691	3.79	1.0E-117	A950145.1	EST_HUMAN	wp8607.x1 NC1 CGAP Brn25 Homo sapiens cDNA clone IMAGE2468629 3' similar to TR:075065
8654	21622	35042	1.01	1.0E-117	10834989	NT	Homo sapiens neural cell adhesion molecule 1 (NCAM1), mRNA
8654	21622	35043	1.01	1.0E-117	10834989	NT	Homo sapiens neural cell adhesion molecule 1 (NCAM1), mRNA
8754	21722	35144	0.83	1.0E-117	A1804151.1	EST_HUMAN	CNV-BT043-090289-075 BT043 Homo sapiens cDNA
8754	21722	35145	0.83	1.0E-117	A1804151.1	EST_HUMAN	CNV-BT043-090289-075 BT043 Homo sapiens cDNA
9654	22597	36048	1.81	1.0E-117	D16524.1	NT	Human gene for very low density lipoprotein receptor, exon 11
10145	23071	36548	1.71	1.0E-117	BE733022.1	EST_HUMAN	801588317F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE3643748 5'
10308	23701	36713	0.64	1.0E-117	AF059033.1	NT	Homo sapiens gamma-aminobutyric acid type B receptor 2 (GABABR2) mRNA, complete cds
10934	23854	37370	1.96	1.0E-117	11420222	NT	Homo sapiens Katch like protein (DKELCHL), mRNA
11207	24181	37891	2.17	1.0E-117	D83776.1	NT	Human mRNA for KIA0191 gene, partial cds
11375	24322	37850	1.96	1.0E-117	11424835	NT	Homo sapiens protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1 (PINT), mRNA
11375	24322	37851	1.96	1.0E-117	11424835	NT	Homo sapiens protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1 (PINT), mRNA
11604	24542	38107	2.72	1.0E-117	AB011541.1	NT	Homo sapiens mRNA for MEGF8, partial cds
11604	24542	38102	2.72	1.0E-117	AB011541.1	NT	Homo sapiens mRNA for MEGF8, partial cds
11722	24608	38456	34.45	1.0E-117	BE269856.1	EST_HUMAN	801186203F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE3544286 5'
11921	24802	38393	1.76	1.0E-117	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABCT), member 3 (ABCA3), mRNA
11921	24802	38394	1.76	1.0E-117	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABCT), member 3 (ABCA3), mRNA
12429	25911		1.39	1.0E-117	AF224899.1	NT	Homo sapiens mermaidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D) genes, complete cds
91	13189	26109	2.9	1.0E-118	AF161500.1	NT	Homo sapiens HSP0151 mRNA, complete cds
95	13211	26135	1.27	1.0E-118	AL046854.1	EST_HUMAN	DKF2P4341056_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp4341056 5'
518	13589	26509	4.48	1.0E-118	7957016	NT	Homo sapiens hypothetical protein (D1828E19.C11), mRNA
915	13594	26923	1.68	1.0E-118	5174580	NT	Homo sapiens sine oculis homeobox (Drosophila) homolog 1 (SIX1) mRNA
2242	15256	28260	1.93	1.0E-118	BE389705.1	EST_HUMAN	801281947F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE3624019 5'
2242	15256	28261	1.93	1.0E-118	BE389705.1	EST_HUMAN	801281947F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE3624019 5'
2242	15256	28262	1.93	1.0E-118	BE389705.1	EST_HUMAN	801281947F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE3624019 5'
2337	15348	28760	1.55	1.0E-118	AW951729.1	EST_HUMAN	EST383769 IMAGE resequencing, MAGB Homo sapiens cDNA
2750	15743	28760	2.48	1.0E-118	U07000.1	NT	Human breakpoint cluster region (BCR) gene, complete cds
2750	15743	28761	2.48	1.0E-118	U07000.1	NT	Human breakpoint cluster region (BCR) gene, complete cds

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3121	16178		3.87	1.0E-118	Y13522.1	NT	Homo sapiens PRKY exon 7
3210	16265	28187	4.61	1.0E-118	A1347694.1	EST_HUMAN	q00105.x1 NCI_CGAP_Kd5 Homo sapiens cDNA clone IMAGE:1916769 3'
3210	16265	29198	4.61	1.0E-118	A1347694.1	EST_HUMAN	q00105.x1 NCI_CGAP_Kd5 Homo sapiens cDNA clone IMAGE:1916769 3'
3370	17010	29924	0.98	1.0E-118	AB024469.1	NT	Pongo pygmaeus DNA, similar to pol gene of HENV-W and MSRV isolate ORW3-3
4116	17149	30041	5.07	1.0E-118	D23650.1	NT	Human mRNA for ribosomal protein, complete cds
5497	18597	31508	1.86	1.0E-118	D23650.1	NT	Human sapiens calcium channel gamma 4 subunit (CACNG4) gene, exon 3
5497	18597	31509	1.86	1.0E-118	AF142624.1	NT	Homo sapiens calcium channel gamma 4 subunit (CACNG4) gene, exon 3
5713	18807	31984	0.68	1.0E-118	11422054	NT	Homo sapiens reelin (RELN), mRNA
5713	18807	31985	0.68	1.0E-118	11422054	NT	Homo sapiens reelin (RELN), mRNA
5800	18892	32074	0.58	1.0E-118	U08892.1	NT	Human GS2 gene, exon 6
5800	18892	32075	0.58	1.0E-118	U08892.1	NT	Human GS2 gene, exon 6
5965	18954	32141	1.44	1.0E-118	M65109.1	NT	Human cystic fibrosis transmembrane conductance regulator (CFTR) gene, exon 4
5962	19047	32247	0.95	1.0E-118	11425900	NT	Homo sapiens T-box 4 (TBX4), mRNA
5962	19047	32248	0.95	1.0E-118	11425900	NT	Homo sapiens T-box 4 (TBX4), mRNA
6063	19134	32343	1.81	1.0E-118	11420764	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
6849	19902	33196	1.79	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
6849	19902	33197	1.78	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
7304	20276	33611	1.07	1.0E-118	AL043761.1	EST_HUMAN	DKFZp43400127_r1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp43400127 5'
7304	20276	33612	1.07	1.0E-118	AL043761.1	EST_HUMAN	DKFZp43400127_r1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp43400127 5'
7558	20803	34179	5.13	1.0E-118	11431050	NT	Homo sapiens chromosome 2 open reading frame 3 (C2ORF3), mRNA
7572	20816	34194	0.72	1.0E-118	L46590.1	NT	Homo sapiens very long chain acyl-CoA dehydrogenase gene, exons 1-20, complete cds
8305	21274	34695	2.41	1.0E-118	BE781223.1	EST_HUMAN	601468195F1 NIH_MGC_87 Homo sapiens cDNA clone IMAGE:3872247 5'
8726	21684	35119	7.01	1.0E-118	BE062855.1	EST_HUMAN	QV0-BT0263-060200-097-H03 BT0263 Homo sapiens cDNA
8726	21684	35120	7.01	1.0E-118	BE062855.1	EST_HUMAN	QV0-BT0263-060200-097-H03 BT0263 Homo sapiens cDNA
8732	21700	35125	1.39	1.0E-118	AA443024.1	EST_HUMAN	z68907.r1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:811789 5'
8732	21700	35126	1.39	1.0E-118	AA443024.1	EST_HUMAN	z68907.r1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:811789 5'
9021	21987	35408	1.02	1.0E-118	AB002381.1	NT	Human mRNA for KIAA0383 gene, partial cds
9021	21987	35409	1.02	1.0E-118	AB002381.1	NT	Human mRNA for KIAA0383 gene, partial cds
9071	22037	35460	1.32	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
9071	22037	35461	1.32	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
9390	22355	35768	5.12	1.0E-118	BE26134.1	EST_HUMAN	601144663F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3160562 5'
9421	22386	35825	0.53	1.0E-118	AL048474.2	EST_HUMAN	DKFZp586K1824_r1 988 (synonym: huler1) Homo sapiens cDNA clone DKFZp586K1824
9951	22878	39341	2.29	1.0E-118	7657016	NT	Homo sapiens hypothetical protein (D1328E19 C1.1), mRNA
10988	23620	37115	0.46	1.0E-118	BE736213.1	EST_HUMAN	601307146F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3941603 5'

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10698	23620	37116	0.46	1.0E-118	BE736213.1	EST_HUMAN	601307146F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3641603 5'
10741	23663	37158	2.31	1.0E-118	BF165407.1	EST_HUMAN	7n17609.x1 NCI CGAP Brn23 Homo sapiens cDNA clone IMAGE:3564765 3' similar to SW_ZP3A_HUMAN
10889	23819	37328	0.54	1.0E-118	AW296351.1	EST_HUMAN	P21764 ZONA PELLUCIDA SPERM-BINDING PROTEIN 3A PRECURSOR ;
11607	24545	38106	6.48	1.0E-118	AA315007.1	EST_HUMAN	U1H-BWO-4b-a-07-01.61 NCI CGAP Subd Homo sapiens cDNA clone IMAGE:2726772 3'
11884	24765	38351	1.9	1.0E-118	BE908676.1	EST_HUMAN	EST1188814 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to dynein, light chain 1, cytoplasmic
11884	24765	38352	1.9	1.0E-118	BE908676.1	EST_HUMAN	601499514F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3001563 5'
11887	24768	38355	1.51	1.0E-118	BF093687.1	EST_HUMAN	601499514F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3001563 5'
11887	24768	38356	1.51	1.0E-118	BF093687.1	EST_HUMAN	QVQ-UM0091-120600-385-512 UM0091 Homo sapiens cDNA
12036	24911		1.88	1.0E-118	6325465 NT	EST_HUMAN	QVQ-UM0091-120600-385-512 UM0091 Homo sapiens cDNA
1038	15857	27034	1.75	1.0E-119	7705607 NT	EST_HUMAN	Homo sapiens flag structure-specific endonuclease 1 (FEN1), mRNA
1050	14073	27972	2.88	1.0E-119	AS023147.1	NT	Homo sapiens CGL-105 protein (LOC51011), mRNA
3119	16178	28087	0.98	1.0E-119	8922205 NT	EST_HUMAN	Homo sapiens hypochlorite protein FLJ10052 (FLJ10052), mRNA
3254	16308		0.08	1.0E-119	AA916790.1	EST_HUMAN	on10b05.x1 NCI CGAP Lu5 Homo sapiens cDNA clone IMAGE:1556241 3' similar to WP-E04F6.2 CE01214 ;
3975	17015	29929	1.12	1.0E-119	4504116 NT	EST_HUMAN	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1), mRNA
5410	18513	31391	2.70	1.0E-119	AU133360.1	EST_HUMAN	AU133360 NT29P4 Homo sapiens cDNA clone NT29P4001991 5'
5423	18520	31404	14.06	1.0E-119	M89914.1	NT	Human neurofilament (NF1) gene, complete cds
5428	18531	31411	2.88	1.0E-119	BE936121.1	EST_HUMAN	RC1-AN0073-250900-018-g08 NN0073 Homo sapiens cDNA
5508	18608	31538	1.55	1.0E-119	AV683731.1	EST_HUMAN	AV683731 GKX Homo sapiens cDNA clone GKXCDHB03 5'
5671	18766	31937	0.68	1.0E-119	AL134603.1	EST_HUMAN	DKFZ762M0710.t1.762 (synonym: hma2) Homo sapiens cDNA clone DKFZ762M0710 5'
5671	18766	31938	0.68	1.0E-119	AL134603.1	EST_HUMAN	DKFZ762M0710.t1.762 (synonym: hma2) Homo sapiens cDNA clone DKFZ762M0710 5'
6250	19323	32553	7.38	1.0E-119	AH150703.1	EST_HUMAN	qb77c09.x1 Soares_fetal_hear_NDRH19W Homo sapiens cDNA clone IMAGE:1706128 3' similar to
6415	19483	32730	0.69	1.0E-119	AF315683.1	NT	SW-K1CJ_MOUSE P02535 KERA.TIN. TYPE I CYTOSKELETAL 10 ;
6415	19483	32731	0.69	1.0E-119	AF315683.1	NT	Homo sapiens matrix metalloproteinase 28 (MMP28), mRNA, complete cds
6495	19530	32778		1.0E-119	AA767932.1	EST_HUMAN	in2310.x1 Soares_NF_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2157451 3'
6604	19683	32836	2.67	1.0E-119	X06292.1	NT	Human c-fos/prob-oncogene
6616	19670	32952	4.98	1.0E-119	AW974193.1	EST_HUMAN	EST1368296 IMAGE sequences, MAGM Homo sapiens cDNA
7640	20601	33964	1.3	1.0E-119	BE796614.1	EST_HUMAN	601592035F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3946081 5'
9009	21975	33595	1.15	1.0E-119	BE015150.1	EST_HUMAN	601280564F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3622529 5'
10113	23038	36519	0.5	1.0E-119	11545621 NT	EST_HUMAN	Homo sapiens melanoma differentiation associated protein-5 (MDA5), mRNA
10267	23192	36679	1.1	1.0E-119	11036643 NT	EST_HUMAN	Homo sapiens KIAA0477 gene product (KIAA0477), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10808	23330	37025	5.31	1.0E-119	AJ4465124.1	EST_HUMAN	aa3205.11 NCI_CGAP_CGB1 Homo sapiens cDNA clone IMAGE:814977 5'
10870	23190	37290	3.7290	1.12	1.0E-119	AJ297701.1	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 16-17
10891	23831	37344	3.7344	0.73	1.0E-119	11425837	Homo sapiens hypothetical protein FU10206 (FU10206), mRNA
10911	23831	37345	3.7345	0.73	1.0E-119	11425837	Homo sapiens hypothetical protein FU10206 (FU10206), mRNA
10895	23905	37419	3.7419	0.79	1.0E-119	AB032261.1	Homo sapiens Scd mRNA for stearoyl-CoA desaturase, complete cds
11394	24340	37870	3.7870	1.86	1.0E-119	AJ297701.1	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 16-17
11394	24340	37871	3.7871	1.86	1.0E-119	AJ297701.1	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 16-17
11394	24340	37871	3.7871	1.86	1.0E-119	BF599571.1	602188072F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310033 5'
12486	25901			3.21	1.0E-119	AW847519.1	RC3-CT0212-240989-011-03 CT0212 Homo sapiens cDNA
301	13395	26322	2.6322	0.99	1.0E-120	4507334	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
1042	14088	27040	2.7040	1.6	1.0E-120	AF248540.1	Homo sapiens Intersectin 2 (SH3D18), mRNA, complete cds
1042	14088	27041	2.7041	1.6	1.0E-120	AF248540.1	Homo sapiens Intersectin 2 (SH3D18), mRNA, complete cds
1422	14455	27429	2.7429	2.56	1.0E-120	N44873.1	yy40g12.r1 Scores melanocyte ZNF618 Homo sapiens cDNA clone IMAGE:273765 5'
1605	14637	27614	2.7614	2.5	1.0E-120	AF167706.1	Homo sapiens cyclase-rich repeat-containing protein S52 precursor, mRNA, complete cds
1823	14850	27844	2.7844	1.4	1.0E-120	4557250	Homo sapiens disintegrin and metalloprotease domain 10 (ADAM10), mRNA
2534	15537	28558	2.8558	1.08	1.0E-120	4755124	Homo sapiens aquaporin 4 (AQP4), splice variant b, mRNA
3318	13395	26322	2.6322	1.34	1.0E-120	4507334	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
4385	17413	30297	3.0297	1.81	1.0E-120	AF056460.1	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A), mRNA, partial cds
4385	17413	30298	3.0298	1.81	1.0E-120	AF056460.1	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A), mRNA, partial cds
4891	17712	30606	2.67	1.0E-120	AF098463.1	NT	Homo sapiens stanniocalcin (STC) gene, partial cds
4891	17712	30607	2.67	1.0E-120	AF098463.1	NT	Homo sapiens stanniocalcin (STC) gene, partial cds
5825	18915	32088	3.2088	13.85	1.0E-120	BF568222.1	602188994F1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300174 5'
5825	18915	32089	3.2089	13.85	1.0E-120	BF568222.1	602188994F1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300174 5'
6383	19643	32810	3.2810	0.53	1.0E-120	M29428.1	Human P-glycoprotein (MDR1) gene, exons 6 and 7
6383	19643	32811	3.2811	0.53	1.0E-120	M29428.1	Human P-glycoprotein (MDR1) gene, exons 6 and 7
7523	20771	34147	3.4147	1.84	1.0E-120	D34619.1	Human TBXAS1 gene for thromboxane synthase, exon 7
8228	21195	34602	3.4602	1.78	1.0E-120	Y00067.1	Human gene for neurofilament subunit M (NF-M)
8228	21195	34603	3.4603	1.78	1.0E-120	Y00067.1	Human gene for neurofilament subunit M (NF-M)
8875	21643	35088	3.5088	2.82	1.0E-120	BF337569.1	602033332F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4183333 5'
8747	21715	35138	3.5138	0.75	1.0E-120	AB033057.1	Homo sapiens mRNA for KIAA1231 protein, partial cds
8747	21715	35139	3.5139	0.75	1.0E-120	AB033057.1	Homo sapiens mRNA for KIAA1231 protein, partial cds
8751	21719	35141	3.5141	2.5	1.0E-120	AB007964.1	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0495
8751	21719	35142	3.5142	2.5	1.0E-120	AB007964.1	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0495
8796	21763	35165	3.5165	1.13	1.0E-120	AB007934.1	Homo sapiens mRNA for KIAA0465 protein, partial cds

Table 4

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar: (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9859	22795	36247	4.14	1.0E-120	BE392102.1	EST_HUMAN	601307739F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3625844 5'
9859	22795	36248	4.14	1.0E-120	BE392102.1	EST_HUMAN	601307739F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3625844 5'
10102	23028	36505	3.96	1.0E-120	BF306541.1	EST_HUMAN	60188895F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122876 5'
10118	23044	36524	7.33	1.0E-120	AU133205.1	EST_HUMAN	AU133205 NT 2RP4 Homo sapiens cDNA clone NT2RP4007541 5'
10135	23081	36539	0.67	1.0E-120	AL049801.1	NT	Novel human gene mapping to chromosome 13, similar to rat RhoGAP
10252	23177		0.51	1.0E-120	AB04151.1	EST_HUMAN	GH-B1043-060289-075 B1043 Homo sapiens cDNA
10436	23358	36848	3.02	1.0E-120	AB026000.1	NT	Homo sapiens mRNA for KIAA1077 protein, partial cds
11481	24404	37952	19.45	1.0E-120	BE296387.1	EST_HUMAN	601176727F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532015 5'
11672	24638	38216	2.5	1.0E-120	BE967619.1	EST_HUMAN	601443135F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847281 5'
11672	24638	38217	2.5	1.0E-120	BE967619.1	EST_HUMAN	601443135F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847281 5'
11963	24842	38436	2.23	1.0E-120	U94774.1	NT	Human muscle glycogen phosphorylase (PYGM) gene, 5'UTR and exon 1
12632	26318	31785	1.45	1.0E-120	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
74	13191	26131	0.97	1.0E-121	Y18000.1	NT	Homo sapiens NF2 gene
378	13462	26392	1.92	1.0E-121	AU134963.1	EST_HUMAN	AU134963 PLAGE1 Homo sapiens cDNA clone PLAGE1000899 5'
725	15946	26721	1.83	1.0E-121	5032102	NT	Homo sapiens TNF receptor-associated factor 1 (TRAF1) mRNA
1963	15904	28007	1.17	1.0E-121	4755139	NT	Homo sapiens inositol polyphosphate 4-phosphatase, type I, 107KD (NPP4A), splice variant a, mRNA
1963	15904	28008	1.17	1.0E-121	4755139	NT	Homo sapiens inositol polyphosphate 4-phosphatase, type I, 107KD (NPP4A), splice variant a, mRNA
2112	15128	28149	1.36	1.0E-121	L76631.1	NT	Homo sapiens metabotropic glutamate receptor 1 beta (mGluR1beta) mRNA, complete cds
2880	16038	28961	1.69	1.0E-121	AF111168.2	NT	Homo sapiens serine peptidyl transferase, subunit II gene, complete cds, and unknown genes
3087	16154	29067	3.41	1.0E-121	Y18208.1	NT	Homo sapiens h1h3 gene for hair keratin, exons 1 to 9
3087	16154	29068	3.41	1.0E-121	Y18208.1	NT	Homo sapiens h1h3 gene for hair keratin, exons 1 to 9
3547	16593	29518	0.84	1.0E-121	AB037758.1	NT	Homo sapiens mRNA for KIAA1337 protein, partial cds
3547	16593	29519	0.84	1.0E-121	AB037758.1	NT	Homo sapiens mRNA for KIAA1337 protein, partial cds
3690	16733	29646	8.63	1.0E-121	AF155156.2	NT	Homo sapiens adaptor-related protein complex AP-4 epsilon subunit mRNA, complete cds
4358	17385	30267	1.39	1.0E-121	AI263294.1	EST_HUMAN	q357801.x1 NCI_CGAP_Peri1 Homo sapiens cDNA clone IMAGE:2005417 3'
5012	16928	30911	3.4	1.0E-121	X91937.1	NT	H. sapiens ECE-1 gene (exon 17)
5162	16191	31067	0.93	1.0E-121	4507334	NT	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
5340	18445	31198	0.86	1.0E-121	BE222250.1	EST_HUMAN	h080808.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3168119 3'
5641	18737	31901	0.56	1.0E-121	BE271424.1	EST_HUMAN	60114048F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3049520 5'
7072	20094		0.7	1.0E-121	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region, segment 2/2
7155	16387	31230	0.82	1.0E-121	AW698066.1	EST_HUMAN	RC3-NN0066-270400-011-f02 NN0066 Homo sapiens cDNA
7155	16387	31231	0.82	1.0E-121	AW698066.1	EST_HUMAN	RC3-NN0066-270400-011-f02 NN0066 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8269	21238	34649	1.57	1.0E-121	11438217	NT	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, alpha 2 (GABRA2), mRNA
8273	21242	34653	2.22	1.0E-121	D84122.1	NT	Homo sapiens DNA for prostacyclin synthase, exon 8
8273	21242	34654	2.22	1.0E-121	D84122.1	NT	Homo sapiens DNA for prostacyclin synthase, exon 8
10217	23142	36630	0.79	1.0E-121	AW533858.1	EST_HUMAN	140505.1 Human Pancreatic islets Homo sapiens cDNA 5' similar to TR:075457 075457 CYTOSOLIC PHOSPHOLIPASE A2-GAMMA.
10217	23142	36631	0.79	1.0E-121	AW563888.1	EST_HUMAN	140505.1 Human Pancreatic islets Homo sapiens cDNA 5' similar to TR:075467 075467 CYTOSOLIC PHOSPHOLIPASE A2-GAMMA.
11130	24090	37619	1.87	1.0E-121	11427788	NT	Homo sapiens COX11 (yeast) homodog, cytochrome c oxidase assembly protein (COX11), mRNA
11136	24096	37625	1.52	1.0E-121	AF064200.1	NT	Homo sapiens UDP-glucuronosyltransferase 2B4 precursor (UGT2B4) mRNA, UGT2B4*E458 allele, complete cds
11315	24265	37793	3.61	1.0E-121	7330334	NT	Homo sapiens chloride intracellular channel 4 like (CLIC4), mRNA
11340	24260	37815	3.42	1.0E-121	N59624.1	EST_HUMAN	140740.1 H1 Soarea fetal liver spleen TNF-LS Homo sapiens cDNA clone IMAGE:248448 3'
11864	24890	38175	4.22	1.0E-121	AU119230.1	EST_HUMAN	AUT19320 HEMBA1 Homo sapiens cDNA clone HEMBA1005538 5'
267	13363	26287	2.23	1.0E-122	11526176	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
336	13425	26347	3.36	1.0E-122	AF114488.1	NT	Homo sapiens interaectin short isoform (ITSN), complete cds
358	13445	26372	2.1	1.0E-122	11526176	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
883	13938	26897	3.29	1.0E-122	AF114488.1	NT	Homo sapiens interaectin short isoform (ITSN), complete cds
1224	14262	27219	16.66	1.0E-122	M20707.1	NT	Human kappa-immunoglobulin germline pseudogene (Chr22.4) variable region (subgroup V kappa II)
1702	14732	27714	1.02	1.0E-122	AF167705.1	NT	Homo sapiens cyclase-rich repeat-containing protein S52 precursor, mRNA, complete cds
1725	14755	27741	1.67	1.0E-122	11418424	NT	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA
1725	14755	27742	1.67	1.0E-122	11418424	NT	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA
1831	14858	27856	5.11	1.0E-122	BE960624.1	EST_HUMAN	601497032F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3896358 5'
2468	15502	28528	8.15	1.0E-122	BF316170.1	EST_HUMAN	601896173F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4125234 5'
2469	15502	28529	8.15	1.0E-122	BF316170.1	EST_HUMAN	601896173F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4125234 5'
2851	15911	28634	0.91	1.0E-122	AF264171.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds
4893	17900	30789	1.03	1.0E-122	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
5025	18039		1.4	1.0E-122	AW504645.1	EST_HUMAN	U1HF-BNO-all-e-03-UJ11 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079948 5'
5643	18739	31904	1.31	1.0E-122	BE256039.1	EST_HUMAN	601113567F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354232 5'
6820	18739	31904	7.59	1.0E-122	BE256039.1	EST_HUMAN	601113567F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354232 5'
7422	20369	33740	0.6	1.0E-122	AA686871.1	EST_HUMAN	1404905.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1408399 3'

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8135	21072	34471	0.51	1.0E-122	AA224259.1	EST_HUMAN	z15603.r1 Stragene NT2 neuronal precursor 937230 Homo sapiens cDNA clone IMAGE:663436 5' similar to TR:G940370 G940370 1-AMINO CYCLOPROPANE-1-CARBOXYLATE SYNTHASE;
8195	21072	34472	0.51	1.0E-122	AA224259.1	EST_HUMAN	z15603.r1 Stragene NT2 neuronal precursor 937230 Homo sapiens cDNA clone IMAGE:663436 5' similar to TR:G940370 G940370 1-AMINO CYCLOPROPANE-1-CARBOXYLATE SYNTHASE;
9148	22114	35539	0.56	1.0E-122	AJ278601.1	NT	Homo sapiens mRNA for doublesex and mab-3 related transcription factor 1 (DMR1)
9383	22348	35780	1.17	1.0E-122	11424216	NT	Homo sapiens fetal giant larvae (Drosophila) homolog 2 (LLGL2), mRNA
9678	22631	36086	0.78	1.0E-122	AJ359818.1	EST_HUMAN	SW:MTA1_HUMAN Q13330 METASTASIS-ASSOCIATED PROTEIN MTA1;
9678	22631	36087	0.78	1.0E-122	AJ359818.1	EST_HUMAN	q32307.x1 NCL CGAP_Bnc23 Homo sapiens cDNA clone IMAGE:2013757 3' similar to
10493	23415	36913	0.77	1.0E-122	AL117234.1	NT	SW:MTA1_HUMAN Q13330 METASTASIS-ASSOCIATED PROTEIN MTA1;
11714	24671	38255	6.11	1.0E-122	AB024088.1	NT	Novel human gene mapping to chromosome X, isoform of dbi (proto-oncogene)
12102	24973	38570	1.5	1.0E-122	11434816	NT	Homo sapiens gene for B120, exon 10
12228	25003		5.83	1.0E-122	11419187	NT	Homo sapiens thyroid hormone receptor interactor 11 (TRIP11), mRNA
13107	14282	27219	3.03	1.0E-122	M20707.1	NT	Homo sapiens phosphatidylinositol 4-phosphate 5-kinase, type II, beta (PIP5K2B), mRNA
799	13928	26772	1.18	1.0E-123	BF345274.1	EST_HUMAN	Human kappa-immunoglobulin germline pseudogene (Chr22.4) variable region (subgroup V kappa II)
799	13928	26773	1.18	1.0E-123	BF345274.1	EST_HUMAN	602018058F1 NCL CGAP_Bnc67 Homo sapiens cDNA clone IMAGE:4153970 5'
1015	14083	27014	5.55	1.0E-123	AL163248.2	NT	602018058F1 NCL CGAP_Bnc67 Homo sapiens cDNA clone IMAGE:4153970 5'
1024	14070	27021	2.2	1.0E-123	5803114	NT	Homo sapiens chromosome 21 segment HS21C049
1243	14279	27241	5.25	1.0E-123	4505818	NT	Homo sapiens inner membrane protein, mitochondrial (mitofilin) (MMT), mRNA
1243	14279	27242	5.25	1.0E-123	4505818	NT	Homo sapiens phosphatidylinositol 4-phosphate 5-kinase, type II, beta (PIP5K2B), mRNA, and translated products
1449	14482	27459	83.95	1.0E-123	AJ388641.1	NT	Homo sapiens phosphatidylinositol 4-phosphate 5-kinase, type II, beta (PIP5K2B), mRNA, and translated products
2109	15126	28145	2.75	1.0E-123	M55419.1	NT	Homo sapiens partial mRNA for immunoglobulin kappa chain variable region (IGVK gene), sample GN02
2109	15126	28146	2.75	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2109	15126	28147	2.75	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2323	15334		3.14	1.0E-123	7706982	NT	Human amelogenin (AMELY) gene, 3' end of cds
3284	16318	29239	1.52	1.0E-123	6912617	NT	Homo sapiens RAB-like protein (LOC51208), mRNA
5522	18621	31556	1.59	1.0E-123	L34218.1	NT	Homo sapiens glutathione-S-transferase (glutathione S-transferase) (GST), mRNA
5522	18621	31556	1.59	1.0E-123	L34218.1	NT	Homo sapiens retinoid X receptor binding protein (RXRBP) gene, complete cds
5651	18757	31925	1.31	1.0E-123	BE799746.1	EST_HUMAN	Homo sapiens retinoid X receptor binding protein (RXRBP) gene, complete cds

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descripior
6613	19871	32949	1.97	1.0E-123	AU118435.1	EST_HUMAN	AU118435 HEMBA1 Homo sapiens cDNA clone HEMBA1003591 5'
7199	20223	33554	0.83	1.0E-123	HS3198.1	EST_HUMAN	y84a03.1 Soares fetal liver spleen TNF α Homo sapiens cDNA clone IMAGE:202444 5' similar to SP-YAK1, YEAST P14680 PROTEIN KINASE YAK1 ;
7212	20235	33569	1.24	1.0E-123	U42224.1	NT	Human growth hormone releasing hormone gene, exon 7
7400	20368	33721	0.57	1.0E-123	U56286.1	NT	Human H3RAVONIR-CAM precursor (H3RAVONIR-CAM) gene, complete cds
7532	20592	33955	0.9	1.0E-123	11525833	NT	Homo sapiens heparan sulfate (glucosamine) 3-O-sulfotransferase 2 (HS3ST2), mRNA
7904	20847	34232	1.29	1.0E-123	11436459	NT	Homo sapiens 2-5-diglyceride synthetase 2 (OAS2), mRNA
7913	20856	34244	1.87	1.0E-123	BE263001.1	EST_HUMAN	601152819F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3509182 5'
8053	21020	34419	0.71	1.0E-123	N35841.1	EST_HUMAN	y89d11.1 Soares melanocyte 2N6HM Homo sapiens cDNA clone IMAGE:268917 5' similar to PIR:549511 S49511 protein kinase PkaA - Phycomyces blekesleeanus ;
8053	21020	34420	0.71	1.0E-123	N35841.1	EST_HUMAN	y89d11.1 Soares melanocyte 2N6HM Homo sapiens cDNA clone IMAGE:268917 5' similar to PIR:549511 S49511 protein kinase PkaA - Phycomyces blekesleeanus ;
8248	21217	34626	0.5	1.0E-123	AU131881.1	EST_HUMAN	AU131881 NT2RP3 Homo sapiens cDNA clone NT2RP3003409 5'
8248	21217	34627	0.5	1.0E-123	AU131881.1	EST_HUMAN	AU131881 NT2RP3 Homo sapiens cDNA clone NT2RP3003409 5'
8880	21847		1.43	1.0E-123	AW371924.1	EST_HUMAN	RC4-BT0311-251199-012-a07 BT0311 Homo sapiens cDNA
9724	22752	36205	2.03	1.0E-123	AB007823.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
9853	22789	36253	31.72	1.0E-123	U69823.1	NT	Oryctolagus cuniculus New Zealand white elongation factor 1 alpha (Rabef82), mRNA, complete cds
10370	23293		0.44	1.0E-123	4504806	NT	Homo sapiens jerky (mouse) homolog-like (JRLK), mRNA
12029	24905	38499	5.3	1.0E-123	BF677292.1	EST_HUMAN	602086791F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4250379 5'
12029	24905	38500	5.3	1.0E-123	BF677292.1	EST_HUMAN	602086791F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4250379 5'
208	13364	26288	1.18	1.0E-124	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
208	13364	26289	1.18	1.0E-124	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
274	13370		0.79	1.0E-124	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
486	13569	26485	2.11	1.0E-124	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
692	13754	26983	8.04	1.0E-124	AA397551.1	EST_HUMAN	z81004.1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL-REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT) ;
692	13754	26984	8.04	1.0E-124	AA397551.1	EST_HUMAN	z81004.1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL-REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT) ;
758	13818	26763	6.06	1.0E-124	AF165654.1	NT	Human putative ribosomal protein S1, mRNA
806	13897	26816	1.34	1.0E-124	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
905	13900	26916	4.34	1.0E-124	7703448	NT	Homo sapiens hypothetical protein (HSPC068), mRNA
1349	14384	27352	12.66	1.0E-124	AF274892.1	NT	Homo sapiens glucose transporter 3 gene, exons 9, 10, and complete cds
1349	14384	27353	12.66	1.0E-124	AF274892.1	NT	Homo sapiens glucose transporter 3 gene, exons 9, 10, and complete cds

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF-SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1832	14859	27857	2.84	1.0E-124	AJ131712.1	NT	Homo sapiens mRNA for nuclear RNA-helicase (ncl61 gene)
2076	15093	28110	1.59	1.0E-124	BE379624.1	EST_HUMAN	601491715F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3893954 5'
2463	15467	28490	1.29	1.0E-124	AB024069.1	NT	Homo sapiens gene for B120, exon 11
3502	16549	29475	0.81	1.0E-124	S78684.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ08B1) gene, exon
3502	16549	29475	0.81	1.0E-124	S78684.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ08B1) gene, exon
3915	16955	29867	0.84	1.0E-124	S78684.1	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
4102	17136	30031	0.96	1.0E-124	4507500	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4772	17792	30683	0.81	1.0E-124	BE220437.1	EST_HUMAN	h33cd07.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3175783 3'
4775	17795	30687	1.87	1.0E-124	AB024069.1	NT	Homo sapiens gene for B120, exon 11
6370	18475	31348	10.26	1.0E-124	B922237	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
5755	18849	32028	1.03	1.0E-124	4506786	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA
5893	19074	32272	6.55	1.0E-124	BF696135.1	EST_HUMAN	60212404F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:4281635 5'
6293	19365	32604	0.67	1.0E-124	AV711263.1	EST_HUMAN	AV711263 Cu Homo sapiens cDNA clone CUAADR07 5'
6572	19632	32899	0.78	1.0E-124	11420654	NT	Homo sapiens ubiquitin specific protease 9, X chromosome (Drosophila fat facets related) (USP9X), mRNA
7203	20231	33564	2.95	1.0E-124	Y11717.1	NT	Musculus mRNA for hoxa3 gene
7344	20315	33659	1.04	1.0E-124	BE271265.1	EST_HUMAN	60094377F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:2968655 5'
7344	20315	33660	1.04	1.0E-124	BE271265.1	EST_HUMAN	60094377F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:2968655 5'
7801	20753	34129	2.59	1.0E-124	AA603031.1	EST_HUMAN	ec08105.s1 Stragaine HeLa cell s3 937218 Homo sapiens cDNA clone IMAGE:855897 3'
8128	21065	34464	1.78	1.0E-124	M37277.1	NT	Human Ig gamma H-chain D-region genes, partial cds
8128	21065	34465	1.78	1.0E-124	M37277.1	NT	Human Ig gamma H-chain D-region genes, partial cds
8901	21569	34955	13.39	1.0E-124	4506654	NT	Homo sapiens ribosomal protein L5 (RPL5) mRNA
8909	21773	35198	1.25	1.0E-124	AW612108.1	EST_HUMAN	h9p4408.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2953240 3' similar to TR:O95162
8909	21773	35198	1.25	1.0E-124	AW612108.1	EST_HUMAN	O95162 PEROXISOMAL SHORT-CHAIN ALCOHOL DEHYDROGENASE. ;
8906	21773	35199	1.25	1.0E-124	AW612108.1	EST_HUMAN	O95162 PEROXISOMAL SHORT-CHAIN ALCOHOL DEHYDROGENASE. ;
9517	22490	35924	0.62	1.0E-124	A1769894.1	EST_HUMAN	wc45303.x1 NCI_CGAP_P728 Homo sapiens cDNA clone IMAGE:2321428 3'
9517	22490	35925	0.62	1.0E-124	A1769894.1	EST_HUMAN	wc45303.x1 NCI_CGAP_P728 Homo sapiens cDNA clone IMAGE:2321428 3'
9848	22782	36236	1.85	1.0E-124	AV645633.1	EST_HUMAN	AV645633 GLC Homo sapiens cDNA clone GLCACE04 3'
9848	22782	36237	1.85	1.0E-124	AV645633.1	EST_HUMAN	AV645633 GLC Homo sapiens cDNA clone GLCACE04 3'
9837	22864	36325	0.66	1.0E-124	AF022655.1	NT	Homo sapiens cap250 centrosome associated protein mRNA, complete cds
9837	22864	36326	0.66	1.0E-124	AF022655.1	NT	Homo sapiens cap250 centrosome associated protein mRNA, complete cds
9687	22864	36336	8.08	1.0E-124	A1767133.1	EST_HUMAN	w63102.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2400891 3'
9687	22864	36337	8.08	1.0E-124	A1767133.1	EST_HUMAN	w63102.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2400891 3'

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10220	23156	36645	1.75	1.0E-124	AI503755.1	EST_HUMAN	U1HF-BNO-ak2-5-04-2-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078846 5'
11386	24333	37832	1.53	1.0E-124	U94778.1	NT	Human muscle glycogen phosphorylase (PYGM) gene, exons 6 through 17
11680	24595	38169	5.95	1.0E-124	AI665683.1	EST_HUMAN	U95006.r1 Soares_NFL_T_GBC_51 Homo sapiens cDNA clone IMAGE:2889308 3'
11801	23956	37479	2.06	1.0E-124	AI446455.1	EST_HUMAN	U19603.x1 NCL_GCAP_Gas4 Homo sapiens cDNA clone IMAGE:2141980 3' similar to TR:O31662 O31662 YKR5 PROTEIN;
11801	23956	37480	2.06	1.0E-124	AI446455.1	EST_HUMAN	U19603.x1 NCL_GCAP_Gas4 Homo sapiens cDNA clone IMAGE:2141980 3' similar to TR:O31662 O31662 YKR5 PROTEIN;
12305	13764	26583	4.06	1.0E-124	AA397551.1	EST_HUMAN	Z81804.r1 Striatum schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL-REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT);
12305	13764	26684	4.06	1.0E-124	AA397551.1	EST_HUMAN	Z81804.r1 Striatum schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL-REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT);
12730	25383	31749	1.36	1.0E-124	AB028016.1	NT	Homo sapiens mRNA for KIAA1093 protein, partial cds
12993	25852	31436	1.67	1.0E-124	11417882	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12993	25852	31437	1.67	1.0E-124	11417882	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
319	13411	29019	10.43	1.0E-125	AB032968.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
426	13121	26632	5.43	1.0E-125	BE743922.1	EST_HUMAN	U19603.x1 NCL_GCAP_Gas4 Homo sapiens cDNA clone IMAGE:3026885 5'
645	13711	26633	1.26	1.0E-125	AI110656.1	EST_HUMAN	HA00386 Human fetal liver cDNA library Homo sapiens cDNA
645	13711	26633	1.26	1.0E-125	AI110656.1	EST_HUMAN	HA00386 Human fetal liver cDNA library Homo sapiens cDNA
729	13790	26725	2.34	1.0E-125	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
861	13917	26875	1.61	1.0E-125	AA042813.1	EST_HUMAN	Zf83c07.s1 Soares_Pregnant_uterus_NH-FPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:V65857 cds1 OLFATORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
1000	14061	27003	1.16	1.0E-125	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1156	14198	27148	2.2	1.0E-125	7682279	NT	Homo sapiens KIAA0744 gene product, histone deacetylase 7 (KIAA0744), mRNA
1682	15874	27682	1.99	1.0E-125	7681887	NT	Homo sapiens KIAA0022 gene product (KIAA0022), mRNA
1817	14844	27836	1.65	1.0E-125	U78027.1	NT	Homo sapiens Bruin's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
1828	14855	27832	2.84	1.0E-125	AF015450.1	NT	Homo sapiens Usmarph-alpha mRNA, complete cds
1828	14855	27832	2.84	1.0E-125	AF015450.1	NT	Homo sapiens Usmarph-alpha mRNA, complete cds
2366	15374	28385	1.78	1.0E-125	AA011278.1	EST_HUMAN	Zf01g08.r1 Soares_Fetal_liver_spleen_INFLS_S11 Homo sapiens cDNA clone IMAGE:429665 5'
2604	15604	28626	1.19	1.0E-125	4604696	NT	Homo sapiens inhibin, alpha (INH4) mRNA
2804	15604	28927	1.19	1.0E-125	4604696	NT	Homo sapiens inhibin, alpha (INH4) mRNA
3022	18311	28001	1.19	1.0E-125	BE018009.1	EST_HUMAN	b57406.r1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3048131 5' similar to TR:O65804 O95604 ZINC FINGER PROTEIN..

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3872	18911	29821	1.11	1.0E-125	AA042813.1	EST_HUMAN	2433cd7.s1 Sacchara fragrans virus, NP-HPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gp-X05657_cet1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMPOTE (HUMAN);
4380	17602	30498	1.86	1.0E-125	11425114	NT	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
4380	17602	30499	1.86	1.0E-125	11425114	NT	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
4648	17669	30556	1.66	1.0E-125	BE315412.1	EST_HUMAN	601141152F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3140796 5'
5973	18038	32259	1.47	1.0E-125	11438448	NT	Homo sapiens KIAA0085 protein (KIAA0085), mRNA
5984	18078	32275	1.07	1.0E-125	BE175169.1	EST_HUMAN	QV2HT0577-01600-165-066 HT0577 Homo sapiens cDNA
8041	19123	32328	3.68	1.0E-125	BE892680.1	EST_HUMAN	601433472F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918562 5'
8086	19166	32378	0.6	1.0E-125	A1679604.1	EST_HUMAN	tu07c07.x1 NCL_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2268108 3' similar to WP-C45G9.2 CE01854;
8413	19481	32728	0.69	1.0E-125	BE736055.1	EST_HUMAN	601305670F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3640097 5'
8733	19789	33068	1.29	1.0E-125	BE562328.1	EST_HUMAN	601335628F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3688780 5'
8733	19789	33069	1.29	1.0E-125	BE562328.1	EST_HUMAN	601335628F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3688780 5'
7263	19988	33296	5.05	1.0E-125	XG3427.1	NT	Homo sapiens IGF-II gene, exon 5
7263	19988	33297	5.05	1.0E-125	XG3427.1	NT	Homo sapiens IGF-II gene, exon 5
7775	20728	34100	1.04	1.0E-125	BE278823.1	EST_HUMAN	601159078F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3505603 5'
8032	20969	34363	0.54	1.0E-125	11425672	NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
8891	21657	35278	0.99	1.0E-125	U90288.1	NT	Human chromosome 10 duplicated adrenoleukodystrophy (ALD) gene segment containing exons 8-10
8891	21657	35279	0.99	1.0E-125	U90288.1	NT	Human chromosome 10 duplicated adrenoleukodystrophy (ALD) gene segment containing exons 8-10
9473	22437	35875	12.5	1.0E-125	BE181540.1	EST_HUMAN	QV1-HT0638-070500-191-412 HT0638 Homo sapiens cDNA
9473	22437	35876	12.5	1.0E-125	BE181540.1	EST_HUMAN	QV1-HT0638-070500-191-412 HT0638 Homo sapiens cDNA
9736	22764	36219	0.93	1.0E-125	A1665996.1	EST_HUMAN	hg2c03.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2171891 3' similar to TR-Q14089 Q14089 HYPOTHETICAL PROTEIN;
10819	23740	37242	0.65	1.0E-125	BE784576.1	EST_HUMAN	601560346F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944631 5'
10860	23760	37260	0.74	1.0E-125	AB002288.1	NT	Human mRNA for KIAA0300 gene, partial cds
11042	24006	37333	2.54	1.0E-125	AF043458.1	NT	Homo sapiens IREL gene, exon 5
11124	24084	37610	1.97	1.0E-125	AW131202.1	EST_HUMAN	x59902.x1 NCL_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2622363 3' similar to TR-Q13284 Q13284 LAMBDA/IOTA PROTEIN KINASE C-INTERACTING PROTEIN; [1];
11124	24084	37611	1.97	1.0E-125	AW131202.1	EST_HUMAN	x59902.x1 NCL_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2622363 3' similar to TR-Q13284 Q13284 LAMBDA/IOTA PROTEIN KINASE C-INTERACTING PROTEIN; [1];
11471	24414	37963	2.99	1.0E-125	AB014667.1	NT	Human sapiens mRNA for KIAA0687 protein, partial cds
11621	24559	38121	2.06	1.0E-125	7669505	NT	Homo sapiens myosin, heavy polypeptide 1, skeletal muscle, adult (MYH1), mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11628	24584	38126	5	1.0E-125	AF020028.1	NT	Homo sapiens poly(A) binding protein II (PABP2) gene, complete cds
11729	24615	39192	1.68	1.0E-125	AW812899.1	EST_HUMAN	RC3-ST0188-250200-018-c11 ST0188 Homo sapiens cDNA
11830	24713	38236	4.32	1.0E-125	BE074267.1	EST_HUMAN	QV3-BT0569-020200-075-009 BT0569 Homo sapiens cDNA
11850	24713	38237	4.32	1.0E-125	BE074267.1	EST_HUMAN	QV3-BT0569-020200-075-009 BT0569 Homo sapiens cDNA
12106	18942	32127	1.48	1.0E-125	BF683645.1	EST_HUMAN	602133874F1 NIH MGCG_46 Homo sapiens cDNA clone IMAGE:4300770 5'
775	13834	26780	6.16	1.0E-126	4758007	EST_HUMAN	Homo sapiens CDC-like kinase (CLK) mRNA
920	13974	26926	0.8	1.0E-126	X88735.1	NT	H sapiens gene for alpha1-antichymotrypsin, exon 3
2352	15361	28593	0.91	1.0E-126	8923058	NT	Homo sapiens hypothetical protein FLJ20048 (FLJ20048), mRNA
2352	15361	28594	0.91	1.0E-126	8923058	NT	Homo sapiens hypothetical protein FLJ20048 (FLJ20048), mRNA
2605	15605	28628	1.41	1.0E-126	6382078	NT	Homo sapiens RAN binding protein 2 (RANBP2), mRNA
3087	18145	29058	7.59	1.0E-126	AA160709.1	EST_HUMAN	z072c03.11 Stratiotes pancreas (#637208) Homo sapiens cDNA clone IMAGE:592420 5'
3087	18145	29059	7.59	1.0E-126	AA160709.1	EST_HUMAN	z072c03.11 Stratiotes pancreas (#637208) Homo sapiens cDNA clone IMAGE:592420 5'
3088	18146	29060	1.02	1.0E-126	BF510408.1	EST_HUMAN	UI-H-B14-acc-5-05-0-UI.s1 NCJ CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3084603 3'
3088	18146	29061	1.02	1.0E-126	BF510408.1	EST_HUMAN	UI-H-B14-acc-5-05-0-UI.s1 NCJ CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3084603 3'
3645	16688	29603	0.75	1.0E-126	X63941.1	NT	H sapiens DNA for liver cytochrome b5 pseudogene
3668	16711	29626	2.09	1.0E-126	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
4826	17843	30741	1.15	1.0E-126	AF101108.1	NT	Homo sapiens collagen type XI alpha-1 (COL11A1) gene, exon 63
4826	17843	30742	1.15	1.0E-126	AF101108.1	NT	Homo sapiens collagen type XI alpha-1 (COL11A1) gene, exon 63
4872	17869	30777	1.38	1.0E-126	N34078.1	EST_HUMAN	yt87dc06.r1 Soares melanocyte 2N6HM Homo sapiens cDNA clone IMAGE:287650 5'
5787	18879	32061	0.71	1.0E-126	T66968.1	EST_HUMAN	ye52b12.51 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:86527 3'
6360	19420	32872	3.23	1.0E-126	AA450075.1	EST_HUMAN	z069e03.11 Soares total Testis Nb2HF8_Sw Homo sapiens cDNA clone IMAGE:796444 5' similar to TR.G1145890 G1145890 TTIN;
6422	19489	32739	3.5	1.0E-126	AB040958.1	NT	Homo sapiens mRNA for KIAA1525 protein, partial cds
6422	19489	32740	3.5	1.0E-126	AB040958.1	NT	Homo sapiens mRNA for KIAA1525 protein, partial cds
7742	20596	34061	0.98	1.0E-126	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
7742	20596	34062	0.98	1.0E-126	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
7968	20908	34299	0.64	1.0E-126	AU136463.1	EST_HUMAN	AU136463 PLACE1 Homo sapiens cDNA clone PLACE1004328 5'
8031	20968	34382	0.66	1.0E-126	AI806463.1	EST_HUMAN	W0801.x1 Soares NFL_T_G8C_S1 Homo sapiens cDNA clone IMAGE:2360009 3' similar to W0801.x1 Soares NFL_T_G8C_S1 Homo sapiens cDNA clone IMAGE:2360009 3' similar to
8210	21179	34587	0.92	1.0E-126	AB037715.1	NT	W0801.x1 Soares NFL_T_G8C_S1 Homo sapiens cDNA clone IMAGE:2360009 3' similar to
8210	21179	34588	0.92	1.0E-126	AB037715.1	NT	W0801.x1 Soares NFL_T_G8C_S1 Homo sapiens cDNA clone IMAGE:2360009 3' similar to
8320	21289	34703	4.9	1.0E-126	X16609.1	NT	Human mRNA for ankryrin (variant 2.1)

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8524	21482	349077	1.02	1.0E-126	AA483368.1	EST_HUMAN	hnr4b12.s1 NCI_QGAP_Ew1 Homo sapiens cDNA clone IMAGE:909963 similar to SW:TSBG6_HUMAN
10155	23080	36556	0.44	1.0E-126	4605424	NT	P88068 TUMOR NECROSIS FACTOR-INDUCIBLE PROTEIN TSG-6 PRECURSOR ;
11208	24162	37692	4.45	1.0E-126	BF683175.1	EST_HUMAN	Homo sapiens neuro-oncological ventral antigen 1 (NOVA1), splice variant 1, mRNA
11846	24729	38315	2.96	1.0E-126	BE261690.1	EST_HUMAN	6021397.38F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4298240 5'
12768	18352	31297	7.78	1.0E-126	BE743922.1	EST_HUMAN	501149404F1 NIH_MGC_49 Homo sapiens cDNA clone IMAGE:3502129 5'
173	13275	26201	1.37	1.0E-127	AB024597.1	NT	50157788F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926685 5'
173	13275	26202	1.37	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
174	13275	26201	1.7	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
174	13275	26202	1.7	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
273	13369	26296	0.9	1.0E-127	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
273	13369	26297	0.9	1.0E-127	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
882	13937	26896	0.98	1.0E-127	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
917	13971	26925	2.54	1.0E-127	U72621.2	NT	Homo sapiens lost on transformation LOT1 mRNA, complete cds
1700	14730	27712	1.18	1.0E-127	4827053	NT	Homo sapiens ubiquitin specific protease 8 (USP8) mRNA
2080	15097	28113	4.83	1.0E-127	5803065	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1 (LILRA1), mRNA
2080	15097	28114	4.83	1.0E-127	5803065	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1 (LILRA1), mRNA
2210	15225	28246	10.89	1.0E-127	4506620	NT	Homo sapiens fibronectin protein L26 (RPL26) mRNA
2349	15359	28380	3.28	1.0E-127	AF245505.1	NT	Homo sapiens silicene mRNA, complete cds
2617	15615	28640	2.23	1.0E-127	X12881.1	NT	Human mRNA for cycloketin 18
2628	15627	28651	1.16	1.0E-127	AA450131.1	EST_HUMAN	2x02a02.r1 Sources, total_fetus_Nb2HF8, sw Homo sapiens cDNA clone IMAGE:789098 5'
2628	15627	28652	1.15	1.0E-127	AA450131.1	EST_HUMAN	2x02a02.r1 Sources, total_fetus_Nb2HF8, sw Homo sapiens cDNA clone IMAGE:789098 5'
3702	16745	28658	0.98	1.0E-127	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
							au80606.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782594 5' similar to TRQ15170 Q15170 TRANSCRIPTION FACTOR S-II-RELATED PROTEIN contains element MER22 repetitive element ;
3824	16864	29768	0.81	1.0E-127	AW161297.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C047
4249	17278	30139	0.54	1.0E-127	AL163247.2	NT	Homo sapiens neuroblastoma-amplified protein (LOC51584) mRNA
4282	17311	30189	20.15	1.0E-127	7706239	NT	Homo sapiens neuroblastoma-amplified protein (LOC51584) mRNA
4282	17311	30190	20.15	1.0E-127	7706239	NT	Homo sapiens neuroblastoma-amplified protein (LOC51584) mRNA
4523	17548	30436	1.42	1.0E-127	AF252297.1	NT	Homo sapiens cytochrome P450 retinoid metabolizing protein P450RA1:2 mRNA, complete cds
4633	17654	30541	5.27	1.0E-127	4506384	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4693	17684		2.42	1.0E-127	AL103268.2	NT	Homo sapiens chromosome 21 segment HS21C068
4700	17721	30614	1.32	1.0E-127	6912639	NT	Homo sapiens Ring1 and YY1 binding protein (RYBP), mRNA
5791	18883	32055	1.46	1.0E-127	W03547.1	EST_HUMAN	z01a10.1 Soares melanocyte 2NtHM Homo sapiens cDNA clone IMAGE:291236 5' similar to SW_PIRP_RAT P10688 1-PHOSPHATIDYLINOSITOL 4-5-BISPHOSPHATE PHOSPHODIESTERASE DELTA 1
5826	18916	32100	2.07	1.0E-127	4826963	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM), mRNA
5900	18987	32178	4.51	1.0E-127	X85764.1	NT	H. sapiens NOS2 gene, exon 6
6286	19396	32594	1.95	1.0E-127	X94060.1	NT	H. sapiens TCF11 gene, exon 3-6
6454	19519	32759	5.46	1.0E-127	4504778	NT	Homo sapiens integrin, beta 8 (ITGB8), mRNA
6515	19586	33158	0.91	1.0E-127	11421568	NT	Homo sapiens immunoglobulin superfamily, member 3 (IGSF3), mRNA
7264	19599	33298	1.05	1.0E-127	4826977	NT	Homo sapiens reelin (RELN), mRNA
8066	21003	34400	1.34	1.0E-127	11421914	NT	Homo sapiens Pendred syndrome (PDS), mRNA
8076	21013	34413	1.34	1.0E-127	11421914	NT	Homo sapiens Pendred syndrome (PDS), mRNA
8076	21013	34413	0.58	1.0E-127	BF671355.1	EST_HUMAN	602151232F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4292575 5'
8079	21016	34416	0.6	1.0E-127	AW96292.1	EST_HUMAN	QV3-BN0046-150300-121-H1 BN0046 Homo sapiens cDNA
9239	22205	35637	1.12	1.0E-127	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
9239	22205	35638	1.12	1.0E-127	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
9598	22925	36390	4.63	1.0E-127	AF274953.1	NT	Homo sapiens secretory pathway component Sec31B-1, mRNA, alternatively spliced, complete cds
9598	22925	36391	4.63	1.0E-127	AF274953.1	NT	Homo sapiens secretory pathway component Sec31B-1, mRNA, alternatively spliced, complete cds
10232	23157	36646	0.78	1.0E-127	A298932.1	EST_HUMAN	qmr4h09.x7 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1896449 3'
10708	23630	37125	1.86	1.0E-127	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
11492	24435	37883	5.12	1.0E-127	11417339	NT	Homo sapiens similar to heat shock 70kD protein 95 (mortalin-2) (H. sapiens) (LOC63184), mRNA
11492	24435	37884	5.12	1.0E-127	11417339	NT	Homo sapiens similar to heat shock 70kD protein 95 (mortalin-2) (H. sapiens) (LOC63184), mRNA
11949	24828	38423	2.78	1.0E-127	BE895415.1	EST_HUMAN	601434784F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919917 5'
11949	24828	38424	2.78	1.0E-127	BE895415.1	EST_HUMAN	601434784F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919917 5'
12089	21003	34401	2.11	1.0E-127	11421914	NT	Homo sapiens Pendred syndrome (PDS), mRNA
12332	13275	26201	2.11	1.0E-127	AB024597.1	NT	Homo sapiens Pendred syndrome (PDS), mRNA
12332	13275	26202	1.39	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
12721	25375	31776	2.4	1.0E-127	AB011369.1	NT	Homo sapiens gene for AF 6, complete cds
13062	25866		1.47	1.0E-127	AB011369.1	NT	Homo sapiens gene for AF 6, complete cds
460	13533	26440	3.35	1.0E-128	BE385917.1	EST_HUMAN	601279127F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3918822 5'

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1158	14200	27150	2.18	1.0E-128	4758081	NT	Homo sapiens chondroclast sulfate proteoglycan 2 (versican) (CSPG2) mRNA
1158	14200	27151	2.18	1.0E-128	4758081	NT	Homo sapiens chondroclast sulfate proteoglycan 2 (versican) (CSPG2) mRNA
2084	15101	28117	9.34	1.0E-128	U02523.1	NT	Human FAU1P pseudogene, trinucleotide repeat regions
2084	15101	28118	9.34	1.0E-128	U02523.1	NT	Human FAU1P pseudogene, trinucleotide repeat regions
2219	15233	28287	31.4	1.0E-128	4506718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
2451	15466		1.49	1.0E-128	11437466	NT	Homo sapiens chromatin-specific transcription elongation factor, 140 kDa subunit (FACTP140), mRNA
3405	16454	29377	1.23	1.0E-128	AB033073.1	NT	Homo sapiens mRNA for KIAA1247 protein, partial cds
4693	17714	30609	5.95	1.0E-128	11426673	NT	Homo sapiens prospero-related homeobox 1 (PROX1), mRNA
5624	18720	31878	0.64	1.0E-128	X69539.1	NT	H. sapiens gene for inter-alpha-trypsin inhibitor heavy chain H1, exon 12
6598	19618	32883	1.94	1.0E-128	11420968	NT	Homo sapiens phosphodiesterase 1C, calmodulin-dependent (PDE1C), mRNA
7116	20050	33353	6.42	1.0E-128	BF224345.1	EST_HUMAN	Homo sapiens phosphodiesterase 1C, calmodulin-dependent (PDE1C), mRNA
7661	20621	33986	0.69	1.0E-128	BE614105.1	EST_HUMAN	601603846F1 NIH MGCG_71 Homo sapiens cDNA clone IMAGE:3905794 5'
7983	20922	34313	0.53	1.0E-128	BF529931.1	EST_HUMAN	602042322F1 NCI CGAP_Bln67 Homo sapiens cDNA clone IMAGE:4179988 5'
7983	20922	34314	0.53	1.0E-128	BF529931.1	EST_HUMAN	602042322F1 NCI CGAP_Bln67 Homo sapiens cDNA clone IMAGE:4179988 5'
7983	20922	34315	0.63	1.0E-128	BF529931.1	EST_HUMAN	602042322F1 NCI CGAP_Bln67 Homo sapiens cDNA clone IMAGE:4179988 5'
8080	21017	34417	0.82	1.0E-128	11545923	NT	Homo sapiens putative ABC transporter (WHITE2), mRNA
8139	21076	34476	0.49	1.0E-128	AB046856.1	NT	Homo sapiens mRNA for KIAA1836 protein, partial cds
8139	21076	34477	0.49	1.0E-128	AB046856.1	NT	Homo sapiens mRNA for KIAA1836 protein, partial cds
8593	21859	35281	0.5	1.0E-128	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
8593	21859	35282	0.5	1.0E-128	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
10496	23418	36917	1.73	1.0E-128	AA639198.1	EST_HUMAN	chr04at11.r1 NCI CGAP_Ew1 Homo sapiens cDNA clone IMAGE:1182620 similar to TR:G951338 G951338
11065	24028	37552	3.42	1.0E-128	11425254	NT	CHROMOSOME SEGREGATION GENE HOMOLOG CAS. ; Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2D (GRIN2D), mRNA
11073	24035	37569	3.94	1.0E-128	AA928959.1	EST_HUMAN	chr8B108.s1 NCI CGAP_GC4 Homo sapiens cDNA clone IMAGE:1552383 3' similar to gb:X54941 CYCLIN-
11149	24109	37615	1.48	1.0E-128	AJ252060.1	NT	DEPENDENT KINASES REGULATORY SUBUNIT 1 (HUMAN); Homo sapiens mRNA for TRABID protein (TRABID gene)
11202	24156	37687	2.69	1.0E-128	BE384475.1	EST_HUMAN	601277826F1 NIH MGCG_71 Homo sapiens cDNA clone IMAGE:3618750 5'
12400	25174		8.88	1.0E-128	AW95290.1	EST_HUMAN	601277826F1 NIH MGCG_71 Homo sapiens cDNA clone IMAGE:3618750 5'
122	13468	26423	0.89	1.0E-128	S37722.1	NT	Insulin-like growth factor binding protein-2 [human, placenta, Genomic, 1019 nt, segment 2 of 4]
413	13468	26423	1	1.0E-128	S37722.1	NT	Insulin-like growth factor binding protein-2 [human, placenta, Genomic, 1019 nt, segment 2 of 4]
1731	14761	27745	3.08	1.0E-128	AL069860.1	NT	Novel human mRNA containing Zinc finger CSH2 type domains
1736	14766	27750	2.5	1.0E-128	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1736	14766	27751	2.5	1.0E-129	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
1853	14886	27865	2.86	1.0E-129	11418522	NT	Homo sapiens zinc finger protein 70 (expressed in testis) (ZNF70), mRNA
3145	16202	28113	1.33	1.0E-129	Q14586	SWISSPROT	ZINC FINGER PROTEIN HZF10
3145	16202	28114	1.33	1.0E-129	Q14585	SWISSPROT	ZINC FINGER PROTEIN HZF10
3145	16202	29115	1.33	1.0E-129	Q14585	SWISSPROT	ZINC FINGER PROTEIN HZF10
4102	17223	30112	1.87	1.0E-129	AB040892.1	NT	Homo sapiens mRNA for KIAA1459 protein, partial cds
4309	17338	30216	1.86	1.0E-129	AW752254.1	EST_HUMAN	CMYA5 Human cardiac muscle expression library Homo sapiens cDNA clone 4151805 similar to CMYA5 Cardiomypathy associated gene 5
4309	17338	30217	1.86	1.0E-129	AW752254.1	EST_HUMAN	CMYA5 Human cardiac muscle expression library Homo sapiens cDNA clone 4151805 similar to CMYA5 Cardiomypathy associated gene 5
6210	18284	32516	4.28	1.0E-129	AJ006345.1	NT	Homo sapiens KVLQ11 gene
6574	18731	33007	0.54	1.0E-129	BE868934.1	EST_HUMAN	631519581F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3915350 5'
7334	20305	33648	4.07	1.0E-129	AJ006345.1	NT	Homo sapiens KVLQ11 gene
7396	20384	33716	6.8	1.0E-129	AF041056.1	NT	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC63694), mRNA
7771	20724	34095	0.78	1.0E-129	AF041056.1	NT	Homo sapiens WSCR4 gene, exons 3 and 4
7771	20724	34096	0.78	1.0E-129	AF041056.1	NT	Homo sapiens WSCR4 gene, exons 3 and 4
8661	21626	36850	4.37	1.0E-129	AB014534.1	NT	Homo sapiens mRNA for KIAA0634 protein, partial cds
10439	23361	36850	0.79	1.0E-129	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
10439	23361	36851	0.79	1.0E-129	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
10878	23798	37299	0.48	1.0E-129	AI198117.1	EST_HUMAN	q140408.x1 NC1_QGAP_Bm25 Homo sapiens cDNA clone IMAGE:1858959 3' similar to TR:Q14840 Q14840
10878	23798	37300	0.48	1.0E-129	AI198117.1	EST_HUMAN	MITOGEN INDUCIBLE GENE MIG-2
11557	24467	38083	2.69	1.0E-129	AA625526.1	EST_HUMAN	q140408.x1 NC1_QGAP_Bm25 Homo sapiens cDNA clone IMAGE:1858959 3' similar to TR:Q14840 Q14840
11630	20364	33716	6.2	1.0E-129	11420850	NT	MITOGEN INDUCIBLE GENE MIG-2
12386	25164		4.21	1.0E-129	H83155.1	EST_HUMAN	q140408.x1 NC1_QGAP_Bm25 Homo sapiens cDNA clone IMAGE:1858959 3' similar to TR:Q14840 Q14840
12758	28401		2.93	1.0E-129	AL120739.1	EST_HUMAN	MITOGEN INDUCIBLE GENE MIG-2
77	13194	28117	0.65	1.0E-130	7706530	NT	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC63694), mRNA
1174	14215	27170	5.95	1.0E-130	AB037835.1	NT	af27207.r1 Soares_NHHMPV_S1 Homo sapiens cDNA clone IMAGE:1047599 5'
1675	14707	27685	13.33	1.0E-130	BE275192.1	EST_HUMAN	Homo sapiens hypothetical protein (HSPC242), mRNA
1675	14707	27686	13.33	1.0E-130	BE275192.1	EST_HUMAN	Homo sapiens hypothetical protein (HSPC242), mRNA
1675	14707	27686	13.33	1.0E-130	BE275192.1	EST_HUMAN	Homo sapiens mRNA for KIAA1414 protein, partial cds
2000	15021		3.15	1.0E-130	X04092.1	NT	601121985F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3348366 5'
							601121985F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3348366 5'
							Human gene for catalsase (EC 1.1.1.1) exon 9 mapping to chromosome 11, band p13

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2781	15773		8.37	1.0E-130	AJ010230.1	NT	Homo sapiens RET finger protein-like 1 antisense transcript, partial
2800	15640	28864	1.3	1.0E-130	BE564219.1	EST_HUMAN	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685466 5'
2860	15649	28865	1.3	1.0E-130	BE564219.1	EST_HUMAN	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685466 5'
3591	16838	29356	1.27	1.0E-130	AF240688.1	NT	Homo sapiens retinol dehydrogenase homolog isoform-1 (RDH) mRNA, complete cds
3779	15649	28866	4.55	1.0E-130	BE564219.1	EST_HUMAN	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685466 5'
3779	15649	28866	4.55	1.0E-130	BE564219.1	EST_HUMAN	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685466 5'
3957	16997	29912	1.41	1.0E-130	AW503980.1	EST_HUMAN	U1HF-BND-alky-g-95-Q-U1r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078731 5'
4059	17133	30027	1	1.0E-130	N97710.1	NT	Human -cell receptor (V alpha 22.1, J alpha R2M4285-variant, C alpha 1) mRNA
4569	17592	30465	8.22	1.0E-130	AW843983.1	EST_HUMAN	CM4-CN0045-180200-511-402 CN0045 Homo sapiens cDNA
5133	18142	31021	1.53	1.0E-130	AW363296.1	EST_HUMAN	R00-CT0318-201199-031-att1 CT0318 Homo sapiens cDNA
5133	18142	31022	1.53	1.0E-130	AW363296.1	EST_HUMAN	R00-CT0318-201199-031-att1 CT0318 Homo sapiens cDNA
6891	19843	33239	0.63	1.0E-130	X57825.1	NT	Human germline immunoglobulin lambda light chain pseudogene (V1:1)
6894	20120	33433	0.69	1.0E-130	AW843975.1	EST_HUMAN	CM0-CN0045-170200-225-g03 CN0045 Homo sapiens cDNA
6894	20120	33434	0.69	1.0E-130	AW843975.1	EST_HUMAN	CM0-CN0045-170200-225-g03 CN0045 Homo sapiens cDNA
7010	20739	33452	0.68	1.0E-130	11425446	NT	Homo sapiens estrogen-responsive B box protein (EBBP), mRNA
7465	20432	33788	2.06	1.0E-130	11416777	NT	Homo sapiens solute carrier family 6 (neurotransmitter transporter, L-proline), member 7 (SLC6A7), mRNA
7574	20539	33894	0.55	1.0E-130	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
7574	20539	33895	0.55	1.0E-130	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
9030	21996		0.9	1.0E-130	AF008551.1	NT	Homo sapiens aurora-related kinase 1 (ARK1) mRNA, complete cds
9569	22531	35983	2.61	1.0E-130	AW956242.1	EST_HUMAN	EST1398312 IMAGE:ressequences, MAGD Homo sapiens cDNA
9569	22531	35981	1.74	1.0E-130	AB037756.1	NT	Homo sapiens mRNA for KIAA1335 protein, partial cds
10283	23218		1.29	1.0E-130	AW103454.1	EST_HUMAN	xd39605x1 NC1 CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2596874 3'
12015	24992	39489	1.71	1.0E-130	4504142	NT	Homo sapiens glutamate receptor, metabotropic 5 (GRM5) mRNA
13046	15773		1.44	1.0E-130	AJ010230.1	NT	Homo sapiens RET finger protein-like 1 antisense transcript, partial
4	13125	26023	2.64	0.0E+00	AA228126.1	EST_HUMAN	z5804.r1 Soares NIHMPu_S1 Homo sapiens cDNA clone IMAGE:667590 5' similar to TR:0222811
4	13125	26024	2.64	0.0E+00	AA228126.1	EST_HUMAN	G222811 ALPHA 1 CHAIN OF TYPE XII COLLAGEN ;
8	13128	26028	2.59	0.0E+00	4885136	NT	G222811 ALPHA 1 CHAIN OF TYPE XII COLLAGEN ;
16	13138	26034	0.66	0.0E+00	8923349	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
16	13138	26035	0.66	0.0E+00	8923349	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
23	13143	26042	1.8	0.0E+00	D83327.1	NT	Homo sapiens DORR1 mRNA, partial cds
23	13143	26043	1.8	0.0E+00	D83327.1	NT	Homo sapiens DORR1 mRNA, partial cds

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28	13148	26148	51.1	0.0E+00	AF141348.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
38	13158	26060	0.87	0.0E+00	M58600.1	NT	Human hepatin cofactor II (HCF2) gene, exons 1 through 5
42	13162	26095	4.86	0.0E+00	6857825	NT	Homo sapiens RNA-binding protein S1, serine-rich domain (RNPIS1), mRNA
59	13178	26090	2.13	0.0E+00	Y17151.2	NT	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)
59	13178	26091	2.13	0.0E+00	Y17151.2	NT	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)
61	13180	26095	1.27	0.0E+00	D78004.1	EST_HUMAN	HUMH16H08B Human placenta polyA+ (T-fujwara) Homo sapiens cDNA clone GEN-516H08 5'
61	13180	26099	1.27	0.0E+00	D78004.1	EST_HUMAN	HUMH16H08B Human placenta polyA+ (T-fujwara) Homo sapiens cDNA clone GEN-516H08 5'
62	13181	26097	25.34	0.0E+00	L16588.1	NT	Human ribosomal protein L7 (RPL7) mRNA, complete cds
64	13183	26100	11.49	0.0E+00	AW069534.1	EST_HUMAN	cr48e07.x1 Jil bone marrow stroma Homo sapiens cDNA clone HBMSC_cr48e07 3'
84	13183	26101	11.49	0.0E+00	AW069534.1	EST_HUMAN	cr48e07.x1 Jil bone marrow stroma Homo sapiens cDNA clone HBMSC_cr48e07 3'
88	13186	26107	1.18	0.0E+00	M59076.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
78	13193	26115	4.06	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
78	13193	26116	4.06	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
79	13193	26115	2.97	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
79	13193	26116	2.97	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
82	13198	26122	0.79	0.0E+00	4501850	NT	Homo sapiens anion chloride binding protein 1 (anion chloride (copper-containing)) (ABP1), nuclear gene encoding mitochondrial protein, mRNA
83	13199	26123	16.85	0.0E+00	4504444	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA
91	13207	26131	80.76	0.0E+00	5016038	NT	Homo sapiens actin, beta (ACTB) mRNA
94	13210	26134	16.95	0.0E+00	U82277.1	NT	Human polyhormone 1 homolog (HPH1) mRNA, partial cds
101	13217	26141	2.55	0.0E+00	A114743.1	EST_HUMAN	HAT347 Human fetal liver cDNA library Homo sapiens cDNA
102	13218	26142	1.19	0.0E+00	AB037784.1	NT	ts35b05.x1 NCI CGAP UM Homo sapiens cDNA clone IMAGE:220833 3' similar to TR:Q99551 Q99551
116	13227	26151	0.63	0.0E+00	AB23701.1	EST_HUMAN	MITOCHONDRIAL TRANSCRIPTION TERMINATION FACTOR PRECURSOR ;
117	13227	26151	0.78	0.0E+00	AB23701.1	EST_HUMAN	ts35b05.x1 NCI CGAP UM Homo sapiens cDNA clone IMAGE:220833 3' similar to TR:Q99551 Q99551
118	13228	26152	0.64	0.0E+00	N36040.1	EST_HUMAN	MITOCHONDRIAL TRANSCRIPTION TERMINATION FACTOR PRECURSOR ;
118	13229	26153	0.64	0.0E+00	N36040.1	EST_HUMAN	Y011093.r1 Soares melanocyte 2NHM Homo sapiens cDNA clone IMAGE:270017 5'
121	13230	26158	0.65	0.0E+00	4505458	NT	Y011093.r1 Soares melanocyte 2NHM Homo sapiens cDNA clone IMAGE:270017 5'
131	13236	26163	5.49	0.0E+00	4505308	NT	Homo sapiens neurogranin 2 (NR2P2) mRNA
131	13236	26163	5.49	0.0E+00	4505308	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (22ND) (POLR2A) mRNA
131	13236	26167	5.49	0.0E+00	4505308	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (22ND) (POLR2A) mRNA
139	13247	26174	0.65	0.0E+00	T56945.1	EST_HUMAN	Homo sapiens IgG Fc binding protein (F2(GAMMA)BP) mRNA
141	13244	26174	0.85	0.0E+00	T56945.1	EST_HUMAN	yab3g04.12 Stratagene fetal spleen (#637205) Homo sapiens cDNA clone IMAGE:68310 5'
141	13244	26175	0.85	0.0E+00	T56945.1	EST_HUMAN	yab3g04.12 Stratagene fetal spleen (#637205) Homo sapiens cDNA clone IMAGE:68310 5'

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154	13257		54.2	0.0E+00	4504444	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA
158	13261	26188	4.4	0.0E+00	BF036881.1	EST_HUMAN	601460375F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3663803 5'
160	13263		39.14	0.0E+00	4504444	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA
163	13266	26191	0.92	0.0E+00	AF111168.2	NT	Homo sapiens serine palmitoyl transferase, subunit II gene, complete cds, and unknown genes
165	13268	26192	0.74	0.0E+00	BE295973.1	EST_HUMAN	601174270F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3528864 5'
166	13269	26192	1.17	0.0E+00	BE295973.1	EST_HUMAN	601174270F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3528864 5'
167	13269	26193	2.37	0.0E+00	W73873.1	EST_HUMAN	z692505.t1 Soares fetal heart Nbh419W Homo sapiens cDNA clone IMAGE:346201 5' similar to
168	13270	26194	0.85	0.0E+00	BE162832.1	EST_HUMAN	98A19282_cds1 ZINC FINGER PROTEIN CLONE 647 (HUMAN);
169	13270	26195	0.85	0.0E+00	BE162832.1	EST_HUMAN	QV3-HT0457-140200-088-004 HT0457 Homo sapiens cDNA
169	13271	26196	1.59	0.0E+00	AF244088.1	NT	Homo sapiens zinc finger protein mRNA, complete cds
172	13274	26199	14.16	0.0E+00	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
172	13274	26200	14.16	0.0E+00	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
182	13282	26207	4.87	0.0E+00	BE018970.1	EST_HUMAN	b624e72Y1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2963854 5' similar to WP:Y57A10A.Z
182	13282	26208	4.87	0.0E+00	BE018970.1	EST_HUMAN	b624e72Y1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2963854 5' similar to WP:Y57A10A.Z
187	13287	26211	4.35	0.0E+00	AB018327.1	NT	CE22631.1
187	13287	26212	4.35	0.0E+00	AB018327.1	NT	Homo sapiens mRNA for KIAA0784 protein, partial cds
188	13288	26213	3.08	0.0E+00	AB018327.1	NT	Homo sapiens mRNA for KIAA0784 protein, partial cds
188	13288	26214	3.05	0.0E+00	AB018327.1	NT	Homo sapiens mRNA for KIAA0784 protein, partial cds
195	13297	26225	296.4	0.0E+00	D50659.1	NT	Human gamma-cytoplasmic actin (ACTG9) pseudogene
200	13301	26228	4.35	0.0E+00	AF273045.1	NT	Homo sapiens GTCL tumor antigen act14-3 mRNA, complete cds
200	13301	26230	4.35	0.0E+00	AF273045.1	NT	Homo sapiens GTCL tumor antigen act14-3 mRNA, complete cds
202	13303	26232	3.93	0.0E+00	AF167174.1	NT	Homo sapiens chromosome X MSI.5-2 protein mRNA, complete cds
202	13303	26233	3.93	0.0E+00	AF167174.1	NT	Homo sapiens chromosome X MSI.5-2 protein mRNA, complete cds
211	15835	26235	51.32	0.0E+00	AF587308.1	EST_HUMAN	IQ4063.X1 NC_CGAP_L03 Homo sapiens cDNA clone IMAGE:2207847 3' similar to gb:J03191 PROFILIN1 (HUMAN);
211	15835	26240	51.32	0.0E+00	AF587308.1	EST_HUMAN	IQ4063.X1 NC_CGAP_L03 Homo sapiens cDNA clone IMAGE:2207847 3' similar to gb:J03191 PROFILIN1 (HUMAN);
213	13313	26242	1.97	0.0E+00	AF195958.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
216	13316		43.74	0.0E+00	4506632	NT	Homo sapiens ribosomal protein L31 (RPL31) mRNA
217	13317		6.46	0.0E+00	AF132000.1	NT	Homo sapiens TADA1 protein mRNA, complete cds
223	13323	26248	1.5	0.0E+00	AB019264.1	NT	Homo sapiens mRNA for KIAA0721 protein, partial cds

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224	13323	28248	1.81	0.0E+00	AB018284.1	NT	Homo sapiens mRNA for KIA00721 protein, partial cds
225	13324	28249	3.11	0.0E+00	6678444	NT	Mus musculus testis-specific protein, Y encoded-like (Tspyl), mRNA
226	13325	28250	3.14	0.0E+00	5453805	NT	Homo sapiens NS1-associated protein 1 (NSAP1) mRNA
239	13338	28264	8.19	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
240	13339	28269	3.48	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
247	13344	28282	2.06	0.0E+00	X89772.1	NT	H sapiens mRNA for interferon alpha/beta receptor (long form)
249	13346	28272	9.67	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
257	13354	28290	1.2	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
269	13365	28291	1.2	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
271	13367	28293	3.56	0.0E+00	7706028	NT	Homo sapiens hypothetical protein (LOC517250), mRNA
282	13377	28306	1.55	0.0E+00	D83327.1	NT	Homo sapiens DORR1 mRNA, partial cds
283	13378	28307	1.75	0.0E+00	D83327.1	NT	Homo sapiens DORR1 mRNA, partial cds
284	13379	28307	0.98	0.0E+00	AW845293.1	EST_HUMAN	IL2-CT0031-18189-020-B03 CT0031 Homo sapiens cDNA
293	13387	28314	7.75	0.0E+00	4957026	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 15 (KCNJ15) mRNA
293	13387	28315	7.75	0.0E+00	4557029	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 15 (KCNJ15) mRNA
304	13398	28325	3.88	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
305	13399	28326	15.06	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
308	15533		12.15	0.0E+00	4508728	NT	Homo sapiens ribosomal protein S5 (RP55) mRNA
307	13400	28327	0.8	0.0E+00	4503914	NT	Homo sapiens phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, zylBc0611 Soares, NHMPLU, ST Homo sapiens cDNA clone IMAGE/753994.5'
308	13401	28328	1.85	0.0E+00	AA480002.1	EST_HUMAN	Homo sapiens SON DNA binding protein (SON) mRNA
309	13402	28328	23.16	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
310	13402	28328	22.55	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
317	13406	28332	1.76	0.0E+00	AF114488.1	NT	Homo sapiens SON DNA binding protein (SON) mRNA
324	13418	28341	2.84	0.0E+00	O14887	SW/ISSPROT	TRANSCRIPTION REGULATOR PROTEIN BACH1 (BTS AND CNC HOMOLOG 1) (HA2303)
327	13418	28342	2.84	0.0E+00	O14887	SW/ISSPROT	TRANSCRIPTION REGULATOR PROTEIN BACH1 (BTS AND CNC HOMOLOG 1) (HA2303)
328	13419	28343	4.94	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK) mRNA
329	13419	28343	1.14	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK) mRNA
344	13433	28355	0.89	0.0E+00	5174574	NT	Homo sapiens myeloid lymphoid or mixed-lineage leukemia (t(11q24)) (MLL14) mRNA
345	13434	28356	2.48	0.0E+00	4595268	NT	Homo sapiens moesin (MSN), mRNA
348	13437	28390	3.07	0.0E+00	4827057	NT	Homo sapiens X-box binding protein 1 (XBP1) mRNA
351	13440	28395	1.24	0.0E+00	U71800.1	NT	Human zinc finger protein zfp31 (zfp1) mRNA, partial cds

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356	13444	26339	2.54	0.0E+00	AF231918.1	NT	Homo sapiens chromosome 21 unknown mRNA
356	13444	26370	2.54	0.0E+00	AF231918.1	NT	Homo sapiens chromosome 21 unknown mRNA
357	13636	26371	2.87	0.0E+00	AF231918.1	NT	Homo sapiens chromosome 21 unknown mRNA
359	13446	26373	0.87	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
361	13448	26376	0.9	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (GBPA), mRNA
362	13449	26377	1.91	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
363	13449	26377	1.41	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
365	13451	26379	0.63	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
376	13460	26390	2.41	0.0E+00	AU134663.1	EST_HUMAN	AL134663 PLACE1 Homo sapiens cDNA clone PLACE1000699 5'
387	13500	26433	7.69	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
388	13501	26434	2.78	0.0E+00	AB63014.1	EST_HUMAN	y91h05.x1 NCL CGAP Brn25 Homo sapiens cDNA clone IMAGE2018457 3' similar to gb:254199
392	13467	26407	2.89	0.0E+00	AW754180.1	EST_HUMAN	PHOSPHORIBOSYLAMINE-GLYCINE LIGASE (HUMAN)
395	13469	26400	1.3	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
396	13470	26401	2.24	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
396	13470	26402	2.24	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
397	13471	26403	1.22	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
398	13472	26404	1.27	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
398	13472	26405	1.27	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
399	13473	26406	3.09	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
400	13474	26407	0.67	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
401	13475	26408	2.69	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
401	13475	26409	2.69	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
402	13475	26408	2.37	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
402	13475	26409	2.37	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
406	13479	26409	25.89	0.0E+00	4506893	NT	Homo sapiens ribosomal protein L19 (RPL19) mRNA
420	13115	26013	1.44	0.0E+00	R17795.1	EST_HUMAN	Homo sapiens phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, y918a02.71 Soares infant brain TNIB Homo sapiens cDNA clone IMAGE31652 5'
428	13502	26435	2.15	0.0E+00	4503914	NT	phosphoribosylglycinamide synthetase (GART) mRNA
428	13503	26436	15.71	0.0E+00	4506728	NT	Homo sapiens ribosomal protein S6 (RPS6) mRNA
430	13504	26436	1.89	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
431	13505	26437	3.69	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
431	13505	26438	3.69	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
432	13506	26439	4.53	0.0E+00	AF103607.1	NT	Mus musculus truncated SON protein (Son) mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
444	13517		1.27	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
446	13519	26452	8.45	0.0E+00	4557879	NT	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA
451	13524		0.75	0.0E+00	AA324262.1	EST_HUMAN	EST127054 Cerebellum II Homo sapiens cDNA 5' end
452	13525		1.25	0.0E+00	BE25447.1	EST_HUMAN	60111520F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3523248 5'
468	13541	26466	3.47	0.0E+00	4504532	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1B (HTR1B) mRNA
468	13541	26467	3.47	0.0E+00	4504532	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1B (HTR1B) mRNA
474	13546	26475	2.84	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
474	13546	26476	2.84	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
484	13557	26482	2.88	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C045
485	13558	26483	8.51	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
485	13558	26484	6.81	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
494	13566	26486	3.92	0.0E+00	AB033035.1	NT	Homo sapiens mRNA for KIAA1205 protein, partial cds
496	13568	26491	1.83	0.0E+00	AU132898.1	EST_HUMAN	AU132898 NT2RP4 Homo sapiens cDNA clone NT2RP4000837 5'
504	13576	26497	1.58	0.0E+00	BE365144.1	EST_HUMAN	50127495F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3616756 5'
505	15842	26498	1.88	0.0E+00	AW038625.1	EST_HUMAN	PMO-1 T0665-130400-002-c06 DT0665 Homo sapiens cDNA
508	13579	26500	1.47	0.0E+00	AL117235.1	NT	Novel human gene mapping to chromosome 1
509	13580	26501	0.9	0.0E+00	8822955	NT	Homo sapiens PCS26 protein (PCS26), mRNA
513	13594		0.82	0.0E+00	BF373403.1	EST_HUMAN	IL2-FT0156-070900-120-F07 F07159 Homo sapiens cDNA
520	13597	26511	5.32	0.0E+00	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
527	15843	26515	1.15	0.0E+00	BE081627.1	EST_HUMAN	QV2-B1 T0635-160400-142-A05 B1 T0635 Homo sapiens cDNA
532	13603	26521	1.81	0.0E+00	BF022806.1	EST_HUMAN	501764858F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3596398 5'
538	13609	26528	2.23	0.0E+00	AB040909.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
541	13612	26531	10.84	0.0E+00	8006030	NT	Homo sapiens transcription elongation factor B (SII), polypeptide 1-like (TCEB1L) mRNA
542	13613	26532	4.46	0.0E+00	4504036	NT	Homo sapiens guanine nucleotide binding protein (G protein), alpha 11 (Gq class) (GNA11) mRNA
542	13613	26533	4.46	0.0E+00	4504036	NT	Homo sapiens guanine nucleotide binding protein (G protein), alpha 11 (Gq class) (GNA11) mRNA
544	13615	26535	0.89	0.0E+00	8822831	NT	Homo sapiens anillin (LOC54443), mRNA
545	13616	26536	1.2	0.0E+00	8822831	NT	Homo sapiens anillin (LOC54443), mRNA
545	13616	26537	1.2	0.0E+00	8822831	NT	Homo sapiens X-linked antihydrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
550	13620		5.14	0.0E+00	AF003528.1	NT	U14-B1-actb-04-0-J1 s1 NCI CGAP_S033 Homo sapiens cDNA clone IMAGE:2713951 3'
558	13628	26546	1.95	0.0E+00	AW133524.1	EST_HUMAN	Homo sapiens RGH1 gene, retrovirus-like element
568	13638		2.54	0.0E+00	D10083.1	NT	Homo sapiens ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1 (UQCORF51), nuclear gene encoding mitochondrial protein, mRNA
588	13656	26571	2.72	0.0E+00	5174742	NT	

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601	13688		15.19	0.0E+00	U04065.1	NT	Human apolipoprotein A-I (ApoA-I) gene, exon 1
604	13671	26586	1.83	0.0E+00	BF104988.1	EST_HUMAN	U016225271 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4045447 5'
606	13673	26587	0.77	0.0E+00	892363.1	NT	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
609	13673	26588	0.77	0.0E+00	892363.1	NT	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
611	13676	26591	0.69	0.0E+00	4501854.1	NT	Homo sapiens acetyl-Coenzyme A carboxylase beta (ACACB), mRNA
616	13681	26587	1.6	0.0E+00	AF221712.1	NT	Homo sapiens Smad- and Olf-interacting zinc finger protein mRNA, partial cds
623	13681	26588	1.6	0.0E+00	AF221712.1	NT	Homo sapiens Smad- and Olf-interacting zinc finger protein mRNA, partial cds
623	13688	26605	1.86	0.0E+00	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
625	13690	26608	1.53	0.0E+00	AB037807.1	NT	Homo sapiens mRNA for KIAA1386 protein, partial cds
627	13692	26609	0.85	0.0E+00	6806918.1	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
628	13693	26610	1.55	0.0E+00	6806918.1	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
629	13694	26611	1.55	0.0E+00	6806918.1	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
629	13694	26612	1.34	0.0E+00	6806918.1	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
629	13694	26613	1.34	0.0E+00	6806918.1	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
636	13702	26623	1.35	0.0E+00	AA390486.1	EST_HUMAN	z550c07.11 Sources, testis, NIH Homo sapiens cDNA clone IMAGE:728732 5'
640	13706	26627	4.91	0.0E+00	D11078.1	NT	Homo sapiens RGH2 gene, retrovirus-like element
644	13710	26630	1.86	0.0E+00	W78811.1	EST_HUMAN	z515b04.1 Sources, fetal liver, spleen, INFUS_S1 Homo sapiens cDNA clone IMAGE:415587 5' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN);
644	13710	26631	1.86	0.0E+00	W78811.1	EST_HUMAN	z515b04.1 Sources, fetal liver, spleen, INFUS_S1 Homo sapiens cDNA clone IMAGE:415587 5' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN);
647	13713		5.61	0.0E+00	4865526.1	NT	Homo sapiens novel SH2-containing protein 3 (NSP3), mRNA
654	13720	26643	2.78	0.0E+00	6060003.1	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2B (GRIN2B), mRNA
658	13722	26646	2.3	0.0E+00	6031624.1	NT	Homo sapiens CCNA1-box-binding transcription factor (CBF2), mRNA
659	13725	26650	3.11	0.0E+00	U05235.1	NT	Homo sapiens neutral amino acid transporter (ASCT1) gene, exon 8
663	13729	26653	0.99	0.0E+00	AF108389.1	NT	Homo sapiens sodium/calcium exchanger isoform NaCa3 (NCC1) mRNA, complete cds
663	13729	26654	0.99	0.0E+00	AF108389.1	NT	Homo sapiens sodium/calcium exchanger isoform NaCa3 (NCC1) mRNA, complete cds
659	13734	26659	4.94	0.0E+00	4828947.1	NT	Homo sapiens protein kinase, X-linked (PRICK), mRNA
669	13734	26660	4.94	0.0E+00	4828947.1	NT	Homo sapiens protein kinase, X-linked (PRICK), mRNA
675	16546		3.3	0.0E+00	X67147.1	NT	Homo sapiens endogenous retrovirus pHE 1 (ERV8)
683	13746	26673	9.58	0.0E+00	4504424.1	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 1 (HMG1), mRNA
688	13751	26677	4.6	0.0E+00	AB029012.1	NT	Homo sapiens mRNA for KIAA1089 protein, partial cds
698	13760	26682	17.63	0.0E+00	7687468.1	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
710	13772	26706	15.52	0.0E+00	AA614537.1	EST_HUMAN	np49d01.s1 NCI CGAP Br.1 Homo sapiens cDNA clone IMAGE:128633 3' similar to gb:X57352 INTERFERON-INDUCIBLE PROTEIN 1-8U (HUMAN);

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
714	13778	26710	4.91	0.0E+00	M60675.1	NT	Human von Willebrand factor gene, exons 23 through 34
714	13778	26711	4.91	0.0E+00	M60675.1	NT	Human von Willebrand factor gene, exons 23 through 34
724	13786	26720	2.21	0.0E+00	5032192	NT	Homo sapiens TNF receptor-associated factor 1 (TRAF1) mRNA
730	13791	26726	4.69	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
730	13791	26727	4.69	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
732	13793	26730	11.38	0.0E+00	11546800	NT	Homo sapiens hypothetical protein FLJ21634 (FLJ21634), mRNA
738	13796	26738	2.31	0.0E+00	BE241577.1	EST_HUMAN	TCAAP1D0779 Pediatric acute myelogenous leukemia cell (FAB M1) BAYOR-HGSC project=TCOA Homo sapiens cDNA, clone TCAAP0779
757	13817	26761	2.09	0.0E+00	AF226900.2	NT	Homo sapiens MHC class I antigen (HLA-G) mRNA, HLA-G1 allele, complete cds
757	13817	26762	2.09	0.0E+00	AF226900.2	NT	Homo sapiens MHC class I antigen (HLA-G) mRNA, HLA-G1 allele, complete cds
759	13819	26764	0.86	0.0E+00	J03784.1	NT	Human, plasminogen activator inhibitor-1 gene, exons 2 to 9
759	13819	26765	0.86	0.0E+00	J03784.1	NT	Human, plasminogen activator inhibitor-1 gene, exons 2 to 9
762	13822	26768	2.01	0.0E+00	AB037760.1	NT	Homo sapiens mRNA for KIAA1339 protein, partial cds
763	13823	26767	0.86	0.0E+00	6912749	NT	Homo sapiens zinc finger protein 212 (ZNF212), mRNA
765	13830	26769	3.03	0.0E+00	D30612.1	NT	Homo sapiens mRNA for repressor protein, partial cds
768	13835	26770	1.78	0.0E+00	BE893735.1	EST_HUMAN	80145547F1 NIH_MGC_35 Homo sapiens cDNA clone IMAGE:3849803 5'
770	13826	26774	3.68	0.0E+00	R46915.1	EST_HUMAN	Y08608.1 Soares breast 2NB-Hst Homo sapiens cDNA clone IMAGE:154048 5'
771	13830	26775	2.14	0.0E+00	5032086	NT	Homo sapiens splicing factor 3a, subunit 1, 120KD (SFS3A1), mRNA
779	13838	26783	1.88	0.0E+00	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
782	13842	26787	2.77	0.0E+00	7661965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
783	13852	26789	2.38	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
783	13852	26800	2.38	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
798	13867	26804	2.72	0.0E+00	X86772.1	NT	H. sapiens mRNA for interferon alpha/beta receptor (long form)
802	13861	26808	3.38	0.0E+00	AB020717.1	NT	H. sapiens mRNA for KIAA0910 protein, partial cds
802	13861	26809	3.38	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
807	13865	26815	10.76	0.0E+00	5174478	NT	Homo sapiens pericentriin (PCNT) mRNA
808	13868	26816	9.93	0.0E+00	4507300	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
825	13883	26836	1.58	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
826	13884	26837	2.57	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
828	13866	26839	1.82	0.0E+00	4557666	NT	Homo sapiens potassium voltage-gated channel, Isk-related family, member 1 (KCNK1) mRNA
834	13891	26845	3.12	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (KINB) mRNA, complete cds
834	13891	26846	3.12	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (KINB) mRNA, complete cds
835	13892	26847	1.34	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (KINB) mRNA, complete cds
840	13897	26852	2.16	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (GBD) (GABFA), mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
844	13900	26857	1.23	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
844	13900	26858	1.23	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
851	13907	26859	1.78	0.0E+00	AF027163.1	NT	Homo sapiens sodium/iodide cotransporter (SLC5A3) gene, complete cds
855	13911	26869	4.48	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
855	13911	26870	4.48	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
856	13912	26871	10.69	0.0E+00	4507182	NT	Homo sapiens SON DNA binding protein (SON) mRNA
857	13913	26872	4.54	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
858	13914	26873	14.11	0.0E+00	4506728	NT	Homo sapiens ribosomal protein S6 (RPS6) mRNA
862	13918	26877	1.18	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
862	13918	26877	1.18	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
863	13919	26878	1.8	0.0E+00	AA633272.1	EST_HUMAN	h66407 s1 NCL CGAP_P10 Homo sapiens cDNA clone IMAGE:987453
863	13919	26879	1.8	0.0E+00	AA633272.1	EST_HUMAN	h66407 s1 NCL CGAP_P10 Homo sapiens cDNA clone IMAGE:987453
864	13920	26880	10.06	0.0E+00	BF677594.1	EST_HUMAN	802085579F1 NIH JMG.C. 83 Homo sapiens cDNA clone IMAGE:4249915 5'
868	13924	26880	1.57	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
868	13924	26881	1.57	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
869	13925	26882	1.85	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
869	13925	26883	1.85	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
882	13947	26906	0.86	0.0E+00	AL165203.2	NT	Homo sapiens chromosome 21 segment HS21C003
889	13954	26911	1.72	0.0E+00	BE089592.1	EST_HUMAN	GV0-BT10703-280400-211-g11 BT10703 Homo sapiens cDNA
889	13954	26912	1.72	0.0E+00	BE089592.1	EST_HUMAN	GV0-BT10703-280400-211-g11 BT10703 Homo sapiens cDNA
909	13964	26921	1.69	0.0E+00	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
918	13973	26921	63.74	0.0E+00	4504958	NT	Homo sapiens laminin receptor 1 (67KD, ribosomal protein SA) (LAMR1), mRNA
921	13973	26921	24.73	0.0E+00	4504958	NT	Homo sapiens laminin receptor 1 (67KD, ribosomal protein SA) (LAMR1), mRNA
922	13975	26927	0.71	0.0E+00	AF089747.1	NT	Homo sapiens alpha-1-antichymotrypsin precursor, mRNA, partial cds
923	13976	26928	2.39	0.0E+00	L28101.1	NT	Homo sapiens kallistatin (P14) gene, exons 1-4, complete cds
925	13978	26930	0.84	0.0E+00	Z206556.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
925	13978	26931	0.84	0.0E+00	Z206556.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
926	13979	26932	0.63	0.0E+00	Z206556.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
926	13979	26933	0.63	0.0E+00	Z206556.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
946	13986	26950	2.86	0.0E+00	AB023211.1	NT	Homo sapiens mRNA for KIAA0994 protein, partial cds
946	13986	26951	2.86	0.0E+00	AB023211.1	NT	Homo sapiens mRNA for KIAA0994 protein, partial cds
952	14005	26957	0.68	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' end
953	14006	26958	8.74	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' end
954	14007	26959	0.72	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' end

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955	14008	26960	0.83	0.0E+00	4507430	NT	Homo sapiens thymotropic embryonic factor (TEF), mRNA
955	14008	26961	0.83	0.0E+00	4507430	NT	Homo sapiens thymotropic embryonic factor (TEF), mRNA
953	15955	26968	2.24	0.0E+00	A001948.1	EST_HUMAN	cs98403.s1 NCL CGAP GC3 Homo sapiens cDNA clone IMAGE:1613404 3'
953	15955	26969	2.24	0.0E+00	A001948.1	EST_HUMAN	cs98403.s1 NCL CGAP GC3 Homo sapiens cDNA clone IMAGE:1613404 3'
955	14017	26971	10.17	0.0E+00	7657266	NT	Homo sapiens KIAA0929 protein Mx2 interacting nuclear target (MINT) homolog (KIAA0929), mRNA
976	14027	26981	2.04	0.0E+00	AB030568.1	NT	Homo sapiens mRNA for PSP24, complete cds
984	14035	26987	1.86	0.0E+00	BF368974.1	EST_HUMAN	PV2-GN0014-050900-001-402 GN0014 Homo sapiens cDNA
984	14035	26988	1.86	0.0E+00	BF368974.1	EST_HUMAN	PV2-GN0014-050900-001-402 GN0014 Homo sapiens cDNA
984	14035	26989	1.86	0.0E+00	BF368974.1	EST_HUMAN	PV2-GN0014-050900-001-402 GN0014 Homo sapiens cDNA
985	14037	26992	3.55	0.0E+00	X52207.1	NT	Homo sapiens partial c-fgr gene, exons 2 and 3
985	14037	26993	3.55	0.0E+00	X52207.1	NT	Homo sapiens partial c-fgr gene, exons 2 and 3
985	14046	27000	2.25	0.0E+00	4757969	NT	Homo sapiens chromodomain protein, Y chromosome-like (CDYL) mRNA
1006	14058	27003	1.17	0.0E+00	U83688.1	NT	Human beta-tubulin (TUB4) gene, complete cds
1007	14057	27009	13.38	0.0E+00	U83688.1	NT	Human beta-tubulin (TUB4) gene, complete cds
1008	14057	27009	2.59	0.0E+00	U83688.1	NT	Human beta-tubulin (TUB4) gene, complete cds
1011	14060		5.20	0.0E+00	AF109490.1	NT	Homo sapiens 8q22.1 region and MTGS (CBFA2T1) gene, partial cds
1012	14060		5.20	0.0E+00	AF109490.1	NT	Homo sapiens 8q22.1 region and MTGS (CBFA2T1) gene, partial cds
1016	14064	27015	1.28	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds, and unknown gene
1017	14064	27015	1.82	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds, and unknown gene
1018	14064	27015	1.71	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds, and unknown gene
1019	14065	27016	1.65	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds, and unknown gene
1022	14068	27019	2.42	0.0E+00	7661685	NT	Homo sapiens DKFZP566M0122 protein (DKFZP566M0122), mRNA
1026	14072	27023	1.21	0.0E+00	5803114	NT	Homo sapiens inner membrane protein, mitochondrial (mitofilin) (MIMT), mRNA
1027	14073		1.98	0.0E+00	AA458680.1	EST_HUMAN	aa8607.s1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:838236 3' similar to SW/PR98_HUMAN P47210 26S PROTEASE REGULATORY SUBUNIT 8;
1030	14076	27027	0.76	0.0E+00	N43182.1	EST_HUMAN	(alignment: Ser and Pro with BLASTx or p)
1030	14076	27028	0.76	0.0E+00	N43182.1	EST_HUMAN	EST15124 WATM1 Homo sapiens cDNA clone 5124 similar to DNA-DIRECTED RNA POLYMERASE II (alignment: Ser and Pro with BLASTx or p)
1031	14077	27029	1.2	0.0E+00	4759249	NT	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA
1031	14077	27030	1.2	0.0E+00	4759249	NT	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA
1034	14080		3.19	0.0E+00	5922833	NT	Homo sapiens hypothetical protein FLJ11196 (FLJ11196), mRNA
1048	14095	27046	2.4	0.0E+00	4758569	NT	Homo sapiens heat shock 70kD protein B8 (mortalin-2) (HSPA9B) mRNA

Table 4
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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1066	14111	27060	2.13	0.0E+00	4826672	NT	Homo sapiens cadherin 6, K-cadherin (fetal kidney) (CDH6) mRNA
1066	14111	27061	2.13	0.0E+00	4826672	NT	Homo sapiens cadherin 6, K-cadherin (fetal kidney) (CDH6) mRNA
1070	14115	27062	3.18	0.0E+00	8922624	NT	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA
1070	14115	27068	3.18	0.0E+00	8922624	NT	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA
1071	14116	27067	28.45	0.0E+00	AJ245022.1	NT	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
1073	14118		0.82	0.0E+00	8922087	NT	Homo sapiens hypothetical protein FLJ20080 (FLJ20080), mRNA
1075	14120	27071	3.85	0.0E+00	5174384	NT	Homo sapiens alkylation repair, alkB homolog (ABH), mRNA
1084	14128	27082	1.91	0.0E+00	4758117	NT	Homo sapiens Death associated protein 3 (DAP3) mRNA
1086	14142	27092	2.82	0.0E+00	BE003208.1	EST_HUMAN	NR0-510115-200300-003-H08 BN0115 Homo sapiens cDNA
1121	14195	27118	5.64	0.0E+00	7706134	NT	Homo sapiens potassium channel, subfamily K, member 9 (KCNK9), mRNA
1121	14195	27117	5.54	0.0E+00	7706134	NT	Homo sapiens potassium channel, subfamily K, member 9 (KCNK9), mRNA
1134	14177	27127	0.96	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
1134	14177	27128	0.96	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
1135	14178	27129	33.54	0.0E+00	4506712	NT	Homo sapiens ribosomal protein S27a (RPS27A) mRNA
1137	14180	27131	2.34	0.0E+00	8922290	NT	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA
1140	14183	27134	8.07	0.0E+00	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
1142	14185	27135	20.89	0.0E+00	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
1143	14186	27136	5.23	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
1143	14186	27137	6.23	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
1147	14189	27140	1.84	0.0E+00	7706500	NT	Homo sapiens Npw38-binding protein Npw38P (LOC51728), mRNA
1148	14190	27141	0.76	0.0E+00	X95926.1	NT	H. sapiens ART14 gene
1148	14190	27142	0.76	0.0E+00	X95926.1	NT	H. sapiens ART14 gene
1149	14191	27143	1.25	0.0E+00	AJ147650.1	EST_HUMAN	gb22410.XT Soares_pregnant_uterus_NBDHPU Homo sapiens cDNA clone IMAGE:169701.1 3'
1151	14193	27145	1.88	0.0E+00	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
1160	14202	27155	3.19	0.0E+00	4759031	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
1160	14202	27155	3.19	0.0E+00	4759031	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
1161	14203	27156	0.99	0.0E+00	6968844	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
1172	14213	27167	8.26	0.0E+00	7305076	NT	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD25, mRNA
1172	14213	27168	8.26	0.0E+00	7305076	NT	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD25, mRNA
1175	14216	27171	1.08	0.0E+00	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
1182	14223	27180	1.21	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
1196	14236	27191	0.64	0.0E+00	AF075289.1	NT	Homo sapiens Na+/H+ exchanger isoform 2 (NHE2) mRNA, complete cds
1214	14252		1.24	0.0E+00	7657336	NT	Homo sapiens mult. (E. coli) homolog 3 (MLH3), mRNA
1230	14268	27225	1.18	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E- Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1230	14288	27226	1.18	0.0E+00	AF284750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1231	14289	27227	1.6	0.0E+00	AF284750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1232	14289	27228	1.7	0.0E+00	AF284750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1251	14287	27253	6.18	0.0E+00	AF109718.1	NT	Homo sapiens chromosome 3 subtelomeric region
1252	14288	27254	0.98	0.0E+00	AF030938	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4) mRNA
1262	14297	27260	0.73	0.0E+00	AF050740	NT	Homo sapiens prelamin A (PRLN) mRNA
1271	14308		2.04	0.0E+00	Y18000.1	NT	Homo sapiens NF2 gene
1279	14314	27275	48.44	0.0E+00	AF06718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1286	14321	27284	4.02	0.0E+00	AF084479.1	NT	Homo sapiens Williams-Beuren syndrome deletion transcript 9 (WBSOR9) mRNA, complete cds
1292	14327	27288	1.08	0.0E+00	AB040940.1	NT	Homo sapiens mRNA for KIAA1597 protein, partial cds
1292	14327	27289	1.08	0.0E+00	AB040940.1	NT	Homo sapiens mRNA for KIAA1597 protein, partial cds
1303	14339	27302	2	0.0E+00	5174748	NT	Homo sapiens Wolfgram syndrome (WFS) mRNA
1303	14339	27303	2	0.0E+00	5174748	NT	Homo sapiens Wolfgram syndrome (WFS) mRNA
1303	14339	27304	2	0.0E+00	5174748	NT	Homo sapiens Wolfgram syndrome (WFS) mRNA
1304	14340		3.46	0.0E+00	AF098158.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 5
1314	15863	27316	1.28	0.0E+00	7687529	NT	Homo sapiens rhabdoid tumor deletion region protein 1 (RTDR1), mRNA
1314	15863	27317	1.28	0.0E+00	7687529	NT	Homo sapiens rhabdoid tumor deletion region protein 1 (RTDR1), mRNA
1319	14354	27322	6.23	0.0E+00	59803148	NT	Homo sapiens ring finger protein 9 (RNF9), mRNA
1320	14355	27323	0.81	0.0E+00	4508004	NT	Homo sapiens zinc finger protein 173 (ZNF173) mRNA
1322	14357	27324	6.58	0.0E+00	5803148	NT	Homo sapiens ring finger protein 9 (RNF9), mRNA
1323	14358	27325	33.1	0.0E+00	4508004	NT	Homo sapiens zinc finger protein 173 (ZNF173) mRNA
1325	14390	27327	4.74	0.0E+00	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
1326	14391	27328	5.7	0.0E+00	7681965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1327	14392	27329	9.47	0.0E+00	7681965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1328	14393	27330	5.14	0.0E+00	8587387	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
1328	14393	27331	5.14	0.0E+00	8587387	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
1340	14374	27344	2.17	0.0E+00	M14123.1	NT	Human endogenous retrovirus HERV-K10
1407	14440	27410	1.34	0.0E+00	AJ250014.1	NT	Human sapiens mRNA for Familial Cylindromatosis cys1 gene
1415	14448	27421	1.79	0.0E+00	AJ208756.1	EST_HUMAN	9938506.x1 Seares_testis_NHT Homo sapiens cDNA clone IMAGE1837427 3' similar to WP127A1.5 CE4213
1416	14449	27422	32.54	0.0E+00	8042206	NT	RAN, member RAS oncogene family/Homo sapiens RAN, member RAS oncogene family (RAN), mRNA
1423	14456	27430	1.31	0.0E+00	4505648	NT	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA
1423	14456	27431	1.31	0.0E+00	4505648	NT	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1425	14458	27434	2.26	0.0E+00	7705565	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
1425	14458	27435	2.26	0.0E+00	7705565	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
1427	14460	27436	6.81	0.0E+00	AJ236063.1	NT	Homo sapiens partial AF-4 gene, exons 2 to 7 and AU repeat elements
1434	14468	27445	2.81	0.0E+00	AF035280.1	NT	Homo sapiens alpha1-fucosyltransferase (alpha1-3FucT) gene, exon 7
1447	14480	27457	1.01	0.0E+00	U35637.1	NT	Human nebulin mRNA, partial cds
1447	14480	27457	1.01	0.0E+00	U35637.1	NT	Human nebulin mRNA, partial cds
1457	14490	27464	3.14	0.0E+00	AL132698.1	NT	Novel human gene on chromosome 20
1458	14482	27465	2.5	0.0E+00	AL137764.1	NT	Novel human gene mapping to chromosome 1
1463	14496	27470	1.59	0.0E+00	D87077.1	NT	Human mRNA for KIAA0240 gene, partial cds
1466	14499	27473	5.36	0.0E+00	6612457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1468	14501	27475	1.7	0.0E+00	7661865	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1468	14501	27476	1.7	0.0E+00	7661865	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1469	14502		1.04	0.0E+00	Y07629.2	NT	Homo sapiens RFB30 gene for RING finger protein
1513	14546	27516	2.11	0.0E+00	7706434	NT	Homo sapiens HHDC for homolog of Drosophila headcase (LOC51690), mRNA
1528	14561	27532	1.94	0.0E+00	AA481172.1	EST_HUMAN	aa34603.1 NCL CGAP GC81 Homo sapiens cDNA clone IMAGE:815118 5
1534	14567	27536	29.54	0.0E+00	AF023860.1	NT	Cercopithecus aethiops cyclophilin A mRNA, complete cds
1534	14567	27537	29.54	0.0E+00	AF023860.1	NT	Cercopithecus aethiops cyclophilin A mRNA, complete cds
1536	14569	27540	1.37	0.0E+00	AW976097.1	EST_HUMAN	EST398206 MAGE cDNAs, MAGN Homo sapiens cDNA
1536	14569	27541	1.37	0.0E+00	AW976097.1	EST_HUMAN	EST398206 MAGE cDNAs, MAGN Homo sapiens cDNA
1538	14571		2.22	0.0E+00	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
1539	14572	27544	2.25	0.0E+00	M16768.1	NT	Human T-cell receptor gamma chain VJ3.3/CII.1 region mRNA, complete cds
1540	14573	27545	2.04	0.0E+00	4905404	NT	Homo sapiens transmembrane glycoprotein (GPNMB) mRNA
1540	14573	27546	2.04	0.0E+00	4905404	NT	Homo sapiens transmembrane glycoprotein (GPNMB) mRNA
1541	14574	27547	3.31	0.0E+00	7682405	NT	Homo sapiens KIAA0957 protein (KIAA0957), mRNA
1542	14575		7.04	0.0E+00	768697.2	NT	Homo sapiens TNF-inducible protein CG12-1 (GG12-1), mRNA
1546	14581	27553	2.45	0.0E+00	M68478.1	NT	Human transglutaminase mRNA, complete cds
1551	14584	27555	1.24	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1551	14584	27556	1.24	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1552	15671		19.78	0.0E+00	4506654	NT	Homo sapiens ribosomal protein L5 (RPL5) mRNA
1553	14585	27567	26.31	0.0E+00	M14188.1	NT	Human laminin receptor (2H5 epitope) mRNA, 5' end
1553	14586	27571	0.94	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1563	14596	27572	0.94	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1565	14598	27573	10.15	0.0E+00	4503068	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanome-associated) (CSPG4), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1583	14616	27598	9.8	0.0E+00	Z83738.1	NT	H.sapiens H2B9/g gene
1584	14617	27590	1.81	0.0E+00	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTNZ1), mRNA
1584	14617	27591	1.81	0.0E+00	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTNZ1), mRNA
1585	14618	27592	12.62	0.0E+00	AV690331.1	EST_HUMAN	AV690331 GK/G Homo sapiens cDNA clone GKCB0R02.5'
1585	14618	27593	12.62	0.0E+00	AV690331.1	EST_HUMAN	AV690331 GK/G Homo sapiens cDNA clone GKCB0R02.5'
1588	15872	27596	2.54	0.0E+00	AB040905.1	NT	Homo sapiens mRNA for KIAA1472 protein, partial cds
1592	14624	27597	1.24	0.0E+00	AF157476.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
1594	14626	27600	4.83	0.0E+00	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1594	14626	27601	4.83	0.0E+00	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1596	14628	27602	26.26	0.0E+00	5729676	NT	Homo sapiens heat shock 70kD protein 10 (HSC71) (HSPA10), mRNA
1598	14630	27605	1.56	0.0E+00	M61803.1	NT	Human sodium channel mRNA
1613	14645	27621	7.01	0.0E+00	H26973.1	EST_HUMAN	yx76cd05.s1 Soares adult brain N26-HB55Y Homo sapiens cDNA clone IMAGE:183848.3'
1622	14655	27632	2.31	0.0E+00	AB046829.1	NT	Homo sapiens mRNA for KIAA1609 protein, partial cds
1622	14655	27633	2.31	0.0E+00	AB046829.1	NT	Homo sapiens mRNA for KIAA1609 protein, partial cds
1644	14676	27648	1.04	0.0E+00	AW444637.1	EST_HUMAN	UI-H-B13-gly-c-04-D-UI.s1 NCL_CGAP Sub5 Homo sapiens cDNA clone IMAGE:2733284.3'
1673	14705	27682	1.19	0.0E+00	BE144364.1	EST_HUMAN	MRO-H10166-181199-004-B11 H10166 Homo sapiens cDNA
1673	14705	27683	1.19	0.0E+00	BE144364.1	EST_HUMAN	MRO-H10166-181199-004-B11 H10166 Homo sapiens cDNA
1677	14708	27687	1.84	0.0E+00	AI768104.1	EST_HUMAN	wd81807.x1 Soares NSF FR_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2317477.3' similar to TR:Q62788 Q62788 QY52H52 ZINC FINGER PROTEIN.1
1678	14710	27688	1.44	0.0E+00	4758513	NT	Homo sapiens hematopoietic-derived zinc finger protein (HD-ZNF-1) mRNA
1679	14711	27689	3.61	0.0E+00	AF057177.1	NT	Homo sapiens T-cell receptor gamma V1 gene region
1683	14714	27693	1.72	0.0E+00	M29580.1	NT	Human zinc-finger protein 7 (ZFP7) mRNA, complete cds
1683	14714	27694	1.72	0.0E+00	M29580.1	NT	Human zinc-finger protein 7 (ZFP7) mRNA, complete cds
1685	14716	27696	1.53	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
1686	14717	27698	2.12	0.0E+00	7657063	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
1690	14721	27700	1.27	0.0E+00	BE222374.1	EST_HUMAN	hu11d05.x1 NCL_CGAP Lu24 Homo sapiens cDNA clone IMAGE:3166281.3' similar to TR:O65147 O65147 MKP-1 LIKE PROTEIN TYROSINE PHOSPHATASE.1
1690	14721	27701	1.27	0.0E+00	BE222374.1	EST_HUMAN	hu11d05.x1 NCL_CGAP Lu24 Homo sapiens cDNA clone IMAGE:3166281.3' similar to TR:O65147 O65147 MKP-1 LIKE PROTEIN TYROSINE PHOSPHATASE.1
1693	14723	27705	5.17	0.0E+00	H30132.1	EST_HUMAN	yx59e08.r1 Soares breast 3NBH81 Homo sapiens cDNA clone IMAGE:182246.5' similar to gb:M64069 GAMMA-GLUTAMYL TRANSPEPTIDASE 5 PRECURSOR (HUMAN);
1693	14723	27706	5.17	0.0E+00	H30132.1	EST_HUMAN	yx59e08.r1 Soares breast 3NBH81 Homo sapiens cDNA clone IMAGE:182246.5' similar to gb:M64069 GAMMA-GLUTAMYL TRANSPEPTIDASE 5 PRECURSOR (HUMAN);

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1695	14726		0.94	0.0E+00	AI149880.1	EST_HUMAN	qf43f09.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1752809 3'
1696	14726	27708	7.26	0.0E+00	Z80780.1	NT	H.sapiens H2Bh gene
1698	14726	27709	7.26	0.0E+00	Z80780.1	NT	H.sapiens H2Bh gene
1699	14728		28.3	0.0E+00	5031748	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
1700	14739	27721	0.91	0.0E+00	AF169963.1	NT	Homo sapiens WNT16 protein (WNT16) mRNA, complete cds
1701	14740	27724	5.35	0.0E+00	892384.1	NT	Homo sapiens FOXJ2 forkhead factor (LOC558310), mRNA
1713	14743	27727	1.03	0.0E+00	6463955	NT	Homo sapiens pericentriolar material 1 (PCM1) mRNA
1718	14748	27731	0.96	0.0E+00	M75980.1	NT	Human hepatocyte growth factor gene, exon 15
1716	14748	27732	0.96	0.0E+00	M75980.1	NT	Human hepatocyte growth factor gene, exon 15
1720	14750	27736	1.37	0.0E+00	4826873	NT	Homo sapiens RNA binding motif protein, Y chromosome, family 1, member A1 (RBMY1A1) mRNA
1726	14756	27743	20.03	0.0E+00	AB026542.1	NT	Homo sapiens WAVE2 mRNA for WASP-family protein, complete cds
1728	14758		2.59	0.0E+00	S94400.1	NT	TCR zeta [human, Genomic/mRNA, 365 nt, segment 1 of 8]
1737	14787	27752	0.97	0.0E+00	4557538	NT	Homo sapiens sulfate carrier family 28 (sulfate transporter), member 2 (SLC26A2) mRNA
1744	15876	27759	1.21	0.0E+00	11545591	NT	Homo sapiens NOD2 protein (NOD2), mRNA
1760	14789	27775	2.63	0.0E+00	AF273841.1	NT	Homo sapiens SMCY (SMCY) gene, complete cds
1800	19877		35.79	0.0E+00	4506718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1805	14833	27821	2.42	0.0E+00	4557556	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
1805	14833	27822	2.42	0.0E+00	4557556	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
1807	14835	27825	2.05	0.0E+00	U63993.1	NT	Human GSE-1 receptor (RAS) gene, complete cds, and (SMF) gene, partial cds
1810	14838		1.32	0.0E+00	W79671.1	EST_HUMAN	z885693.r1 Soares Testis Testis NBH19W Homo sapiens cDNA clone IMAGE:34664 5'
1811	15878	27828	3.9	0.0E+00	4505332	NT	z885693.r1 Soares Testis Testis NBH19W Homo sapiens cDNA clone IMAGE:34664 5'
1812	14839	27830	1.13	0.0E+00	AA113030.1	EST_HUMAN	z885693.r1 Soares Testis Testis NBH19W Homo sapiens cDNA clone IMAGE:34664 5'
1824	14851	27845	14.85	0.0E+00	U14967.1	NT	Human ribosomal protein L21 mRNA, complete cds
1826	14853	27848	5.94	0.0E+00	AB022331.1	NT	Human mRNA for KIAA0333 gene, partial cds
1827	14854	27849	6.64	0.0E+00	4502264	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4) mRNA
1827	14854	27850	6.64	0.0E+00	4502264	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4) mRNA
1827	14854	27851	6.64	0.0E+00	4502264	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4) mRNA
1851	14877	27872	6.56	0.0E+00	8005655	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
1851	14877	27873	6.56	0.0E+00	8005655	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
1861	14887	27883	1.34	0.0E+00	AB032978.1	NT	Homo sapiens mRNA for KIAA1162 protein, partial cds
1861	14887	27884	1.34	0.0E+00	AB032978.1	NT	Homo sapiens mRNA for KIAA1162 protein, partial cds

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe Seq ID NO.	Exon Seq ID NO.	ORF Seq ID NO.	Expression Signal NO.	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1865	14880	27886	3.28	0.0E+00	4826783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
1865	14890	27887	3.28	0.0E+00	4826783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
1866	14891	27888	6.86	0.0E+00	U07147.1	NT	Human retinal degeneration slow (RDS) gene, exon 1
1866	14891	27889	6.86	0.0E+00	U07147.1	NT	Human retinal degeneration slow (RDS) gene, exon 1
1869	14894	27892	1.48	0.0E+00	AW207280.1	EST_HUMAN	U1-H-B1-afn-407-0-J1.1 (NCI CGAP, Sub3 Homo sapiens cDNA clone IMAGE:272333.3)
1869	14894	27893	1.48	0.0E+00	AW207280.1	EST_HUMAN	U1-H-B1-afn-407-0-J1.1 (NCI CGAP, Sub3 Homo sapiens cDNA clone IMAGE:272333.3)
1892	14917	27912	3.46	0.0E+00	BE277465.1	EST_HUMAN	601176104F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3547239.5
1892	14917	27913	3.46	0.0E+00	BE277465.1	EST_HUMAN	601176104F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3547239.5
1899	14960	27936	0.93	0.0E+00	7657390	NT	Homo sapiens nuclear protein (NP220), mRNA
1899	14960	27937	0.93	0.0E+00	7657390	NT	Homo sapiens nuclear protein (NP220), mRNA
1939	14963	27959	2.02	0.0E+00	4506394	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
1939	14963	27960	2.02	0.0E+00	4506394	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
1948	14972	27970	1.13	0.0E+00	AF157476.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
1949	15881	27971	1.41	0.0E+00	M98478.1	NT	Human transglutaminase mRNA, complete cds
1949	15881	27971	1.41	0.0E+00	M98478.1	NT	Human transglutaminase mRNA, complete cds
1954	14977	27978	2.02	0.0E+00	4507464	NT	Homo sapiens transforming growth factor, beta 3 (TGFB3), mRNA
1954	14977	27979	2.02	0.0E+00	4507464	NT	Homo sapiens transforming growth factor, beta 3 (TGFB3), mRNA
1957	14979	27981	1.06	0.0E+00	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
1959	14981		5.63	0.0E+00	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
1964	14986		2.93	0.0E+00	M55632.1	NT	Human topoisomerase I pseudogene 1
1965	15882	27988	1.48	0.0E+00	5901605	NT	Homo sapiens butyrophilin, subfamily 3, member A2 (BTN3A2), mRNA
1973	14984	27996	1.88	0.0E+00	4809282	NT	Homo sapiens histidine ammonia-lyase (HAL) mRNA
1973	14984	27996	1.88	0.0E+00	4809282	NT	Homo sapiens histidine ammonia-lyase (HAL) mRNA
1984	15005		0.9	0.0E+00	AL163252.2	NT	Homo sapiens chromosome 21 segment HS21C092
1985	15007	28010	1.81	0.0E+00	8400716	NT	Homo sapiens nebulin (NEB), mRNA
1985	15007	28011	1.81	0.0E+00	8400716	NT	Homo sapiens nebulin (NEB), mRNA
1987	15008	28012	2.97	0.0E+00	4826838	NT	Homo sapiens actinin, alpha 4 (ACTN4) mRNA
1987	15008	28013	2.97	0.0E+00	4826838	NT	Homo sapiens actinin, alpha 4 (ACTN4) mRNA
1997	15018	28025	1.05	0.0E+00	AB018333.1	NT	Homo sapiens mRNA for KIAA0760 protein, partial cds
1997	15018	28026	1.05	0.0E+00	AB018333.1	NT	Homo sapiens mRNA for KIAA0760 protein, partial cds
2003	15024	28030	1.59	0.0E+00	M33782.1	NT	Human TIEB protein mRNA, partial cds

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2003	15024	28061	1.59	0.0E+00	M33792.1	NT	Human TFEB protein mRNA, partial cds
2005	15026	28032	1.29	0.0E+00	AW183024.1	EST_HUMAN	X69501.x1 NCI_CGAP_Pari1 Homo sapiens cDNA clone IMAGE:2879913 3'
2005	15026	28033	1.29	0.0E+00	AW183024.1	EST_HUMAN	X69501.x1 NCI_CGAP_Pari1 Homo sapiens cDNA clone IMAGE:2879913 3'
2006	15027	28034	6.19	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
2006	15027	28035	6.19	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
2008	15029	28037	1.33	0.0E+00	AB011149.1	NT	Homo sapiens mRNA for KIAA0377 protein, complete cds
2009	15030	28038	1.36	0.0E+00	Z47596.1	NT	H sapiens genes for semenogelin I and semenogelin II
2009	15030	28039	1.36	0.0E+00	Z47596.1	NT	H sapiens genes for semenogelin I and semenogelin II
2016	15037	28048	3.07	0.0E+00	AB040946.1	NT	Homo sapiens mRNA for KIAA1513 protein, partial cds
2038	15055	28072	1.16	0.0E+00	AF273941.1	NT	Homo sapiens SMCY (SMCY) gene, complete cds
2038	15055	28073	1.16	0.0E+00	AF273941.1	NT	Homo sapiens SMCY (SMCY) gene, complete cds
2069	15068	28104	1.04	0.0E+00	7706742	NT	Homo sapiens TP53TG3a (TP53TG3a), mRNA
2074	15091	28108	0.92	0.0E+00	4503648	NT	Homo sapiens coagulation factor IX (plasma thromboplastic component, Christmas disease, hemophilia B) (F9) mRNA
2075	15092	28109	4.79	0.0E+00	AL140931.1	EST_HUMAN	AL140931 PLACE4 Homo sapiens cDNA clone IMAGE:000321 5'
2077	15094	28111	1.69	0.0E+00	AA077983.1	EST_HUMAN	7B22E10 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B22E10
2077	15094	28112	1.69	0.0E+00	AA077983.1	EST_HUMAN	7B22E10 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B22E10
2079	15096		3.79	0.0E+00	7657486	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
2081	15098		1.64	0.0E+00	4585863	NT	Homo sapiens phosphodiesterase 5A, cGMP-specific, rod, alpha (PDE5A), mRNA
2083	15100		1.7	0.0E+00	A1244247.1	EST_HUMAN	498008.x1 NCI_CGAP_U2 Homo sapiens cDNA clone IMAGE:1988871 3' similar to contains Alu repetitive element;
2088	15105	28123	3.3	0.0E+00	BE877225.1	EST_HUMAN	601488146F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3887747 5'
2089	15106	28124	1.89	0.0E+00	BF315325.1	EST_HUMAN	601902804F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4135320 5'
2089	15106	28125	1.88	0.0E+00	BF315325.1	EST_HUMAN	601902804F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4135320 5'
2093	15110	28129	2.38	0.0E+00	BE697125.1	EST_HUMAN	RC3-CT0413-270700-022-410 CT0413 Homo sapiens cDNA
2093	15110	28130	2.38	0.0E+00	BE697125.1	EST_HUMAN	RC3-CT0413-270700-022-410 CT0413 Homo sapiens cDNA
2098	15115	28136	2.33	0.0E+00	L00620.1	NT	Human plasma membrane calcium ATPase isoform 2 (APT2B2) mRNA, complete cds
2098	15115	28137	2.35	0.0E+00	L00620.1	NT	Human plasma membrane calcium ATPase isoform 2 (APT2B2) mRNA, complete cds
2103	15120	28141	2.29	0.0E+00	4758489	NT	Homo sapiens GTP binding protein 1 (GTPBP1) mRNA
2122	15139		3.16	0.0E+00	BE767964.1	EST_HUMAN	QV1-GN0065-140900-318-410 GN0065 Homo sapiens cDNA
2123	15140		1.29	0.0E+00	AF018993.1	NT	Homo sapiens X-linked juvenile retinoschisis protein (XLRSP) gene, exon 9 and complete cds
2125	15142	28159	3.87	0.0E+00	BF027562.1	EST_HUMAN	601872068F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3954785 5'
2126	15143	28160	1.42	0.0E+00	BE072624.1	EST_HUMAN	PM0-BT0547-210300-004-F04 BT0547 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2128	15145	28161	1.26	0.0E+00	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2131	15148	28163	2.85	0.0E+00	AW752708.1	EST_HUMAN	IL3-CT10219-271068-022-G10 CT10219 Homo sapiens cDNA
2133	15150	28165	4.92	0.0E+00	AI904640.1	EST_HUMAN	QV-B17065-020399-092 BT068 Homo sapiens cDNA
2133	15150	28166	4.92	0.0E+00	AI904640.1	EST_HUMAN	QV-B17065-020399-092 BT065 Homo sapiens cDNA
2191	15206		1.37	0.0E+00	L14787.1	NT	Human DNA-binding protein mRNA, 3' end
2168	18211	28229	0.93	0.0E+00	BE274698.1	EST_HUMAN	60112238F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346688 5'
2198	18213	28232	16.22	0.0E+00	AV738258.1	EST_HUMAN	AV738258 CB Homo sapiens cDNA clone CBNDDE08 5'
2198	18213	28233	16.22	0.0E+00	AV738258.1	EST_HUMAN	AV738258 CB Homo sapiens cDNA clone CBNDDE08 5'
2200	18216	28235	1.16	0.0E+00	AA631691.1	EST_HUMAN	0332401.s1 NCI CGAP Lu5 Homo sapiens cDNA clone IMAGE:1567868 3'
2204	18219	28239	32.02	0.0E+00	BF344434.1	EST_HUMAN	602014828F1 NCI CGAP Brn64 Homo sapiens cDNA clone IMAGE:4150734 5'
2205	18220	28240	25.7	0.0E+00	BE748899.1	EST_HUMAN	601572186T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3'
2209	18224	28245	6.56	0.0E+00	BF377897.1	EST_HUMAN	CMT1-TN0141-250900-439-508 TN0141 Homo sapiens cDNA
2213	15887	28250	1.7	0.0E+00	BF313617.1	EST_HUMAN	601800281F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128622 5'
2216	18230	28253	1.26	0.0E+00	BE018750.1	EST_HUMAN	bb84402.v1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3046082 5' similar to TR-Q15170 Q15170 TRANSCRIPTION FACTOR S-RELATED PROTEIN ;
2217	15231	28254	1.59	0.0E+00	AA042813.1	EST_HUMAN	2453607.s1 Soares_pregnant_uterus_NHHPU Homo sapiens cDNA clone IMAGE:489540 3' similar to gb-X69857 cd81 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
2217	15231	28255	1.59	0.0E+00	AA042813.1	EST_HUMAN	2453607.s1 Soares_pregnant_uterus_NHHPU Homo sapiens cDNA clone IMAGE:489540 3' similar to gb-X69857 cd81 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
2225	18239	28263	3.38	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
2228	18239	28264	3.38	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
2230	18244		1.57	0.0E+00	U36264.1	NT	Human beta-prime-actinin (BAM22) gene, exon 18
2252	15266	28283	7.38	0.0E+00	4557558	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
2258	18272	28297	1.33	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952) mRNA
2264	18278	28303	2.29	0.0E+00	BE895281.1	EST_HUMAN	601433525F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3915607 5'
2268	18280	28305	1.56	0.0E+00	BE905563.1	EST_HUMAN	601498208F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3897457 5'
2266	18280	28306	1.96	0.0E+00	BE905563.1	EST_HUMAN	601498208F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3897457 5'
2269	18282	28308	1.52	0.0E+00	AB037784.1	NT	Homo sapiens mRNA for KIAA1363 protein, partial cds
2308	18320	28340	1.32	0.0E+00	BF334756.1	EST_HUMAN	602014006F1 NCI CGAP Brn64 Homo sapiens cDNA clone IMAGE:4148770 5'
2308	18320	28341	1.32	0.0E+00	BF334756.1	EST_HUMAN	602014006F1 NCI CGAP Brn64 Homo sapiens cDNA clone IMAGE:4148770 5'
2309	18321	28342	4.01	0.0E+00	11545748	NT	Homo sapiens differentially expressed in FDCP (mouse homolog) 6 (DEF6), mRNA
2309	18321	28343	4.01	0.0E+00	11545748	NT	Homo sapiens differentially expressed in FDCP (mouse homolog) 6 (DEF6), mRNA

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2310	15322	28344	2.11	0.0E+00	A078404.1	EST_HUMAN	cd99cd7.x1 Sources: fetal liver spleen; NF1.S1 Homo sapiens cDNA clone IMAGE:1674828 3'
2312	15324	28346	1.43	0.0E+00	AA428001.1	EST_HUMAN	zr78a11.1 Sources: testis; N22HF8.Bw Homo sapiens cDNA clone IMAGE:759740 5'
2312	15324	28347	1.43	0.0E+00	AA428001.1	EST_HUMAN	zr78a11.1 Sources: testis; N22HF8.Bw Homo sapiens cDNA clone IMAGE:759740 5'
2314	15326	28349	2.21	0.0E+00	BF347039.1	EST_HUMAN	602021846F1 NCL_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4157335 5'
2315	14572	27544	1.36	0.0E+00	M16788.1	NT	Human T-cell receptor gamma chain VJCI-CH1 region mRNA, complete cds
2320	15371	28355	1.08	0.0E+00	L02840.1	NT	Homo sapiens potassium channel Kv2.1 mRNA, complete cds
2321	15332	28356	1.57	0.0E+00	6325468	NT	Homo sapiens flavin containing monooxygenase 3 (PMO3), mRNA
2327	15338	28361	1.83	0.0E+00	BE670095.1	EST_HUMAN	7122402.x1 NCL_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3285370 3' similar to TR:094939 O94939 KIAA0857 PROTEIN
2330	15341	28363	5.18	0.0E+00	AF044571.1	NT	Homo sapiens phosphotyrosine kinase alpha subunit (PHA42) gene, exon 32
2331	15342	28364	2.11	0.0E+00	A025642.1	EST_HUMAN	b67208.x1 NCL_CGAP_U12 Homo sapiens cDNA clone IMAGE:2283182 3'
2336	15347	28368	1.76	0.0E+00	5803178	NT	Homo sapiens sperm specific antigen 2 (SSFA2), mRNA
2336	15347	28369	1.76	0.0E+00	5803178	NT	Homo sapiens sperm specific antigen 2 (SSFA2), mRNA
2342	15352	28372	1.44	0.0E+00	7662007	NT	Homo sapiens KIAA0218 gene product (KIAA0218), mRNA
2342	15352	28373	1.44	0.0E+00	7662007	NT	Homo sapiens KIAA0218 gene product (KIAA0218), mRNA
2346	15355	28377	0.97	0.0E+00	D83778.1	NT	Human mRNA for KIAA0194 gene, partial cds
2346	15355	28378	0.97	0.0E+00	D83778.1	NT	Human mRNA for KIAA0194 gene, partial cds
2356	15365	28386	3.77	0.0E+00	5174678	NT	Homo sapiens signal regulatory protein, beta, 1 (SIRP-BETA-1) mRNA
2360	15368	28390	1.86	0.0E+00	AU131142.1	EST_HUMAN	AU131142 NT2RP3 Homo sapiens cDNA clone NT2RP3002084 5'
2361	15369	28391	8.87	0.0E+00	BE794028.1	EST_HUMAN	60158843F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3941003 5'
2362	15370	28391	1.23	0.0E+00	AW887076.1	EST_HUMAN	MR1-SN0033-120409-002-004-SN0033 Homo sapiens cDNA
2363	15371	28392	3.7	0.0E+00	7662017	NT	Homo sapiens KIAA0244 protein (KIAA0244), mRNA
2364	15372	28393	2.27	0.0E+00	4758487	NT	Homo sapiens hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) (H6PD), mRNA
2364	15372	28394	2.27	0.0E+00	4758487	NT	Homo sapiens hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) (H6PD), mRNA
2365	15373		6.34	0.0E+00	AF280107.1	NT	4 (CYP3A4) and cytochrome P450 polypeptide 7 (CYP3A7) genes, complete cds, and cytochrome P450 polypeptide 5 (CYP3A5) gene, partial cds
2367	15375	28396	13.47	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2367	15375	28397	13.47	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2367	15375	28398	13.47	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2368	15376	28399	0.96	0.0E+00	8923089	NT	Human sapient lymphoblastic protein FLJ20081 (FLJ20081), mRNA
2424	15431	28453	1.11	0.0E+00	AU119582.1	EST_HUMAN	AU119582 HEMBA1 Homo sapiens cDNA clone HEMBA1006155 5'
2426	15433		4.37	0.0E+00	A0402035.1	EST_HUMAN	ox60602.x1 Sources: NIHMPU_S1 Homo sapiens cDNA clone IMAGE:1660683 3' similar to TR:008662 O08662 230KDa PHOSPHATIDYLINOSITOL 4-KINASE

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2429	15436		1.2	0.0E+00	BE865905.1	EST_HUMAN	601432608F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918168 5'
2439	15446		1.83	0.0E+00	AB005922.1	EST_HUMAN	AB005922 HeLa cDNA (T.Norma) Homo sapiens cDNA similar to adenylate kinase isozyme 2
2443	15448	28468	5.37	0.0E+00	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
2448	15451	28471	2.23	0.0E+00	D85906.1	NT	Homo sapiens gene for cholesterylkinin type-A receptor, complete cds
2448	15451	28472	2.23	0.0E+00	D85906.1	NT	Homo sapiens gene for cholesterylkinin type-A receptor, complete cds
2454	15459	28481	3.38	0.0E+00	AF106278.1	NT	Homo sapiens immunoglobulin-like transcript 1c variant 4 (LIT1c) gene, exon 6
2459	15463	28488	1.08	0.0E+00	BF345274.1	EST_HUMAN	602018008F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:4153870 5'
2466	15470	28494	3.44	0.0E+00	5729777	NT	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA
2470	15474	28497	1.27	0.0E+00	BE831003.1	EST_HUMAN	CXM-MT0033-150600-428-111 MT0033 Homo sapiens cDNA
2470	15474	28498	1.27	0.0E+00	BE831003.1	EST_HUMAN	CXM-MT0033-150600-428-111 MT0033 Homo sapiens cDNA
2475	15478	28502	1.03	0.0E+00	U13668.1	NT	Human G protein-coupled receptor (GPR1) gene, complete cds
2475	15478	28503	1.03	0.0E+00	U13668.1	NT	Human G protein-coupled receptor (GPR1) gene, complete cds
2476	15480	28504	3.72	0.0E+00	BF569144.1	EST_HUMAN	602184558T1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300383 3'
2486	15490	28514	2.12	0.0E+00	AW469822.1	EST_HUMAN	he0404.41 NCL CGAP_K412 Homo sapiens cDNA clone IMAGE:2872759 3'
2486	15492	28515	3.03	0.0E+00	AW301010.1	EST_HUMAN	ULHF-BP00-456-07-0.U1.1 NIH_MGC_51 Homo sapiens cDNA clone IMAGE:3072780 5'
2513	15516		2.54	0.0E+00	AW813853.1	EST_HUMAN	RC3-S10197-300300-016-004 S10197 Homo sapiens cDNA
2517	15520	28543	11.9	0.0E+00	BE795542.1	EST_HUMAN	601892500F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3948518 5'
2518	15521	28544	1.43	0.0E+00	BF509482.1	EST_HUMAN	U1-H-B14-aux-08-0-U1.s1 NCL CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3096533 3'
2521	15524	28546	2.26	0.0E+00	Z32694.2	NT	Homo sapiens mRNA for membrane transport protein (XK gene)
2523	15526		4.58	0.0E+00	5453871	NT	Homo sapiens platelet-derived growth factor receptor-like (PDGFRL) mRNA
2526	15529	28550	3.58	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
2527	15530	28551	2.51	0.0E+00	U93239.1	NT	Human Sdc2 (Sdc2) mRNA, complete cds
2533	15536	28557	1.5	0.0E+00	BE886490.1	EST_HUMAN	601508211F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3909866 5'
2538	15540	28563	6.2	0.0E+00	BE875511.1	EST_HUMAN	601489241F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3891371 5'
2539	15540	28564	6.2	0.0E+00	BE875511.1	EST_HUMAN	601489241F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3891371 5'
2539	15540	28564	6.2	0.0E+00	BE875511.1	EST_HUMAN	AF114027 Homo sapiens lung fetus Homo sapiens cDNA clone ESF6
2541	15543	28568	1.11	0.0E+00	AF245905.1	NT	Homo sapiens adican mRNA, complete cds
2558	15560	28576	1.25	0.0E+00	BE536921.1	EST_HUMAN	601064798F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3451161 5'
2563	15564	28583	3.18	0.0E+00	AU143277.1	EST_HUMAN	AU143277 V79A1 Homo sapiens cDNA clone V79A11001673 5'
2563	15564	28584	3.18	0.0E+00	AU143277.1	EST_HUMAN	AU143277 V79A1 Homo sapiens cDNA clone V79A11001673 5'
2584	15595	28595	1.51	0.0E+00	BE262896.1	EST_HUMAN	601103312F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2887955 5'
2594	15595	28596	1.51	0.0E+00	BE262896.1	EST_HUMAN	601103312F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2887955 5'
2594	15595	28596	1.51	0.0E+00	BE262896.1	EST_HUMAN	7627112.x1 NCL CGAP_G08 Homo sapiens cDNA clone IMAGE:3' similar to TR-000246 C000246 HYPOTHETICAL 9.3 KD PROTEIN
2595	15598	28597	1.4	0.0E+00	BF223041.1	EST_HUMAN	

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2588	15589	28589	8.56	0.0E+00	AF245605.1	NT	Homo sapiens adiolon mRNA, complete cds
2589	15590	28607	1.03	0.0E+00	BE286913.1	EST_HUMAN	601173531F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3528159 5'
2590	15591	28629	2.15	0.0E+00	AB037886.1	EST_HUMAN	Homo sapiens mRNA for KIAA1415 protein, partial cds
2591	15592	28630	2.15	0.0E+00	AB037886.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
2592	15593	28631	2.35	0.0E+00	BF513835.1	EST_HUMAN	U1H-BW1-amp-F2-q-U1at1 NCI CGAP Sub7 Homo sapiens cDNA clone IMAGE:3070631 3'
2593	15594	28632	1.01	0.0E+00	BF072818.1	EST_HUMAN	602152953F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4233612 5'
2594	15595	28633	1.11	0.0E+00	AF571737.1	EST_HUMAN	INT1908 x1 NCI CGAP Brn25 Homo sapiens cDNA clone IMAGE:2198055 3' similar to gb:U20977
2595	15596	28634	1.11	0.0E+00	AF571737.1	EST_HUMAN	CALCULIN-TRANSPORTING ATPASE PLASMA MEMBRANE, BRAIN ISOFORM 2 (HUMAN);
2596	15597	28635	2.57	0.0E+00	5032150	NT	Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polymerase II, 1, 28KD (TAF21) mRNA
2597	15598	28636	7.76	0.0E+00	AB037859.1	NT	Homo sapiens mRNA for KIAA1438 protein, partial cds
2598	15599	28637	1.25	0.0E+00	BE765445.1	EST_HUMAN	601590108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944304 5'
2599	15600	28638	1.25	0.0E+00	BE765445.1	EST_HUMAN	601590108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944304 5'
2600	15601	28639	8.15	0.0E+00	BE792472.1	EST_HUMAN	601584600F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3389223 5'
2601	15602	28640	2.65	0.0E+00	4504698	NT	Homo sapiens IMP (inosine monophosphate) dehydrogenase 1 (IMPDH1) mRNA
2602	15603	28641	1.32	0.0E+00	U79027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
2603	15604	28642	5.90	0.0E+00	AF173227.1	NT	Homo sapiens quaternary cytochrome oxidase-activating protein 2 (GUCY1B) gene, exon 1
2604	15605	28643	110.09	0.0E+00	AB011108.1	NT	Homo sapiens mRNA for KIAA0536 protein, partial cds
2605	15606	28644	1.22	0.0E+00	AU133385.1	EST_HUMAN	AU133385 NT2RP4 Homo sapiens cDNA clone NT2RP4001864 5'
2606	15607	28645	0.92	0.0E+00	U69225.1	NT	Human bullous pemphigoid antigen (BPAG1) mRNA, complete cds
2607	15608	28646	1.26	0.0E+00	AU130403.1	EST_HUMAN	Human bullous pemphigoid antigen (BPAG1) mRNA, complete cds
2608	15609	28647	1.26	0.0E+00	AU130403.1	EST_HUMAN	AU130403 NT2RP3 Homo sapiens cDNA clone NT2RP3000776 5'
2609	15610	28648	2.07	0.0E+00	AW387016.1	EST_HUMAN	RC1-OT0086-220300-011-037 OT0088 Homo sapiens cDNA
2610	15611	28649	1.12	0.0E+00	BF000018.1	EST_HUMAN	7h15H05.x1 NCI CGAP Cor18 Homo sapiens cDNA clone IMAGE:3316088 3'
2611	15612	28650	5.39	0.0E+00	BE383105.1	EST_HUMAN	7h15H05.x1 NCI CGAP Cor18 Homo sapiens cDNA clone IMAGE:3316088 3'
2612	15613	28651	3.03	0.0E+00	BE531283.1	EST_HUMAN	601278871F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3628923 5'
2613	15614	28652	0.92	0.0E+00	AB037732.1	NT	Homo sapiens mRNA for KIAA1311 protein, partial cds
2614	15615	28653	11.44	0.0E+00	AA318723.1	EST_HUMAN	EST188414 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' and similar to ribosomal protein L29
2615	15616	28654	1.11	0.0E+00	BE794884.1	EST_HUMAN	601599629F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943591 5'
2616	15617	28655	3.65	0.0E+00	U69253.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 5
2617	15618	28656	1.05	0.0E+00	7866517	NT	Homo sapiens neuraglin 1 (NRG1) transcript variant SMD5, mRNA
2618	15619	28657	1.05	0.0E+00	AF110763.1	NT	Homo sapiens skeletal muscle LIM-protein 1 (FHL-1) gene, complete cds

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2748	15741	28758	9.77	0.0E+00	BE796376.1	EST_HUMAN	601591091F1 NIH_MGC. 7 Homo sapiens cDNA clone IMAGE:3945883 5'
2751	15903	28762	13.57	0.0E+00	BE563433.1	EST_HUMAN	601335485F1 NIH_MGC. 39 Homo sapiens cDNA clone IMAGE:3980564 5'
2752	15744		1.22	0.0E+00	AV721647.1	EST_HUMAN	AV721647 HTB Homo sapiens cDNA clone HTBBYE09 5'
2754	15746	28765	2.9	0.0E+00	5174486	NT	Homo sapiens spermatogenesis associated PD1 (KIAA0757) mRNA
2754	15746	28766	2.9	0.0E+00	5174486	NT	Homo sapiens spermatogenesis associated PD1 (KIAA0757) mRNA
2755	15747	28767	0.98	0.0E+00	8623441	NT	Homo sapiens hypothetical protein FLJ20477 (FU20477). mRNA
2755	15747	28768	0.98	0.0E+00	8623441	NT	Homo sapiens hypothetical protein FLJ20477 (FU20477). mRNA
2756	15748	28769	3.23	0.0E+00	AF280195.1	EST_HUMAN	Homo sapiens hypertension-related calcium-regulated gene mRNA, complete cds
2757	15749		48.84	0.0E+00	AV651068.1	EST_HUMAN	AV651068 GLC Homo sapiens cDNA clone GLCQD07 3'
2758	15750	28770	6.5	0.0E+00	BF377897.1	EST_HUMAN	CM1-TN0141-250600-438-508 TN0141 Homo sapiens cDNA
2758	15750	28771	6.5	0.0E+00	BF377897.1	EST_HUMAN	CM1-TN0141-250600-438-508 TN0141 Homo sapiens cDNA
2762	15754	28774	0.84	0.0E+00	4757963	NT	Homo sapiens cerebellar degeneration-related protein (34K) (GDR1) mRNA
2762	15754	28775	0.84	0.0E+00	4757963	NT	Homo sapiens cerebellar degeneration-related protein (34K) (GDR1) mRNA
2766	15758	28780	2.98	0.0E+00	BE747183.1	EST_HUMAN	601580003F1 NIH_MGC. 9 Homo sapiens cDNA clone IMAGE:3929472 5'
2779	15771		1.71	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
2780	15772	28782	4.09	0.0E+00	BF514110.1	EST_HUMAN	UHQ-BWT1-armw-e-07-D.U1 at NCL CGAP. Sub67 Homo sapiens cDNA clone IMAGE:3071340 3'
2786	15778		1.02	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4). mRNA
2782	15784	28800	1.58	0.0E+00	7705275	NT	Homo sapiens angiodotin-3 (ANG-3). mRNA
2782	15784	28801	1.56	0.0E+00	7705275	NT	Homo sapiens angiodotin-3 (ANG-3). mRNA
2793	15785	28802	4.03	0.0E+00	BF677694.1	EST_HUMAN	602055075F1 NIH_MGC. 63 Homo sapiens cDNA clone IMAGE:4248915 5'
2798	15791	28810	1.58	0.0E+00	7427522	NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT). mRNA
2803	15795	28813	15.3	0.0E+00	AV725534.1	EST_HUMAN	AV725534 HTG Homo sapiens cDNA clone HTCCCA03 5'
2803	15795	28814	15.3	0.0E+00	AV725534.1	EST_HUMAN	AV725534 HTG Homo sapiens cDNA clone HTCCCA03 5'
2805	15797		13.6	0.0E+00	AB791683.1	EST_HUMAN	au55403.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518663 5' similar to SW:R13A_HUMAN P40429 60S RIBOSOMAL PROTEIN L13A ;
2808	15800	28819	2.83	0.0E+00	BF530661.1	EST_HUMAN	602071057F1 NCL CGAP. Brn67 Homo sapiens cDNA clone IMAGE:4214679 5'
2809	15801	28820	3.53	0.0E+00	BE872788.1	EST_HUMAN	601450812F1 NIH_MGC. 65 Homo sapiens cDNA clone IMAGE:3854842 5'
2811	15803	28821	1.98	0.0E+00	AU131494	NT	AU131494 NT2RP3 Homo sapiens cDNA clone NT2RP302872 5'
2811	15803	28822	1.98	0.0E+00	AU131494	NT	AU131494 NT2RP3 Homo sapiens cDNA clone NT2RP302872 5'
2811	15803	28823	3.49	0.0E+00	AU131494	NT	AU131494 NT2RP3 Homo sapiens cDNA clone NT2RP302872 5'
2812	15804	28824	34.94	0.0E+00	BE300344.1	EST_HUMAN	600944794F1 NIH_MGC. 17 Homo sapiens cDNA clone IMAGE:2960808 5'
2812	15804	28824	34.94	0.0E+00	BE300344.1	EST_HUMAN	600944794F1 NIH_MGC. 17 Homo sapiens cDNA clone IMAGE:2960808 5'
2817	13280	28216	7.12	0.0E+00	U76630.1	NT	glycoprotein D-Buffy group antigen [human, blood, Genomic DNA, 3088 nt]
2820	15811		0.75	0.0E+00	AB033281.1	NT	Homo sapiens BTROP2 mRNA for F-box and WD-repeats protein isoform C, complete cds
2826	13766	28735	1.6	0.0E+00	AF254750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2828	13798	28738	1.6	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
2830	14086	27037	3.41	0.0E+00	4503202	NT	Homo sapiens cytochrome P450, subfamily 1 (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile) (CYP1B1) mRNA
2830	14086	27038	3.41	0.0E+00	4503202	NT	Homo sapiens cytochrome P450, subfamily 1 (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile) (CYP1B1) mRNA
2847	15907	28832	2.28	0.0E+00	X85980.1	NT	H. sapiens serine hydroxymethyltransferase pseudogene
2848	15908	28832	3.02	0.0E+00	AF068624.1	NT	Homo sapiens 5-aminolevulinic synthase 2 (ALAS2) gene, complete cds
2850	15910	28832	1.9	0.0E+00	AB010690.1	NT	Homo sapiens mRNA for KIAA1527 protein, partial cds
2852	15912	28835	1.07	0.0E+00	4502568	NT	Homo sapiens caspase 10, apoptosis-related cysteine protease (CASP10) mRNA
2852	15912	28836	1.07	0.0E+00	4502568	NT	Homo sapiens caspase 10, apoptosis-related cysteine protease (CASP10) mRNA
2857	15917		0.98	0.0E+00	AJ238852.1	NT	Homo sapiens partial rpl3 gene for ribosomal protein L3, U62 snRNA, U63a snRNA and U83b snRNA genes
2858	15918	28839	3.25	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
2862	15922	28842	1.6	0.0E+00	M89002.1	NT	Human AHNAX nucleoprotein mRNA, 5' end
2865	15925	28844	0.96	0.0E+00	BE154504.1	EST_HUMAN	PIU0-HT0343-281289-003-402 HT0343 Homo sapiens cDNA
2865	15925	28845	0.96	0.0E+00	BE154504.1	EST_HUMAN	PIU0-HT0343-281289-003-402 HT0343 Homo sapiens cDNA
2867	15927		1.48	0.0E+00	X73428.1	NT	H. sapiens l3d gene for HLH type transcription factor
2868	15928		3.61	0.0E+00	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
2870	15930	28847	1	0.0E+00	M88478.1	NT	Human transglutaminase mRNA, complete cds
2874	15933	28850	25.84	0.0E+00	D30657.1	NT	Homo sapiens gamma-cytoplasmic actin (ACTGP3) pseudogene
2874	15933	28851	23.84	0.0E+00	D30657.1	NT	Homo sapiens gamma-cytoplasmic actin (ACTGP3) pseudogene
2877	15938	28854	2.34	0.0E+00	AL098857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
2878	15937		5.17	0.0E+00	Y10658.1	NT	H. sapiens mRNA for nuclear DNA helicase II
2879	15938		1.17	0.0E+00	AF182303.1	NT	Homo sapiens procadherin alpha C1 (PCDH-alpha-C1) mRNA, complete cds
2880	15939	28855	81.62	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2880	15939	28856	81.62	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2881	15950	28865	2.45	0.0E+00	4507280	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2884	15953	28870	0.91	0.0E+00	AL047596.1	EST_HUMAN	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2885	15954	28871	1.07	0.0E+00	7661883	NT	DKFZ586G00821 J1 586 (synonym: huter) Homo sapiens cDNA clone DKFZp98G00821
2885	15954	28871	1.07	0.0E+00	7661883	NT	Homo sapiens KIAA0054 gene product: Helicase (KIAA0054), mRNA
2886	15955	28872	1.07	0.0E+00	7661883	NT	Homo sapiens KIAA0054 gene product: Helicase (KIAA0054), mRNA
2886	15955		2.07	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
2888	15957	28874	5.43	0.0E+00	BE001896.1	EST_HUMAN	QV2-BT0636-130400-138-103 BT0636 Homo sapiens cDNA
2888	15957	28875	5.43	0.0E+00	BE001896.1	EST_HUMAN	QV2-BT0636-130400-138-103 BT0636 Homo sapiens cDNA
2903	15962	28883	0.63	0.0E+00	6806018	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA

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2903	15962	28884	0.63	0.0E+00	6805918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
2905	15965	28898	2.52	0.0E+00	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C005
2906	15965	28889	2.52	0.0E+00	AL163205.2	NT	Homo sapiens chromosome 21 segment HS21C005
2907	15966	28890	0.94	0.0E+00	AA215879.1	EST_HUMAN	z96071.g1 NC1 CGAP GCBI Homo sapiens cDNA clone IMAGE:583517 3' similar to contains Alu repetitive element
2915	15973	28900	4.07	0.0E+00	Y19210.1	NT	Homo sapiens HBB5 gene for hair keratin, exons 1 to 9
2918	15976	28900	1.17	0.0E+00	4758273	NT	Homo sapiens EphA4 (EPHA4) mRNA
2919	15977	28901	23.04	0.0E+00	4503470	NT	Homo sapiens Epha4 (EPHA4) mRNA
2920	15978	28902	0.92	0.0E+00	AI561002.1	EST_HUMAN	U18407.x1 NC1 CGAP Bm28 Homo sapiens cDNA clone IMAGE:2167981 3' similar to TR-O16247
2920	15978	28903	0.92	0.0E+00	AI561002.1	EST_HUMAN	O16247 F44E7.2 PROTEIN ;
2922	15980	28905	0.97	0.0E+00	AF162338.1	NT	O16247 F44E7.2 PROTEIN ;
2931	15989	28910	1.26	0.0E+00	AI206084.1	EST_HUMAN	Homo sapiens protocadherin gamma C4 (PCDH-gamma-C4) mRNA, complete cds
2939	15997	28918	2.92	0.0E+00	AB033063.1	NT	q94904.x1 Scores: testis_NHT Homo sapiens cDNA clone IMAGE:1838527 3' similar to SW/CR20_HUMAN P82268 20 KD NUCLEAR CAP BINDING PROTEIN ;
2939	15997	28919	2.92	0.0E+00	AB033063.1	NT	Homo sapiens mRNA for KIAA1287 protein, partial cds
2940	15998	28920	4.81	0.0E+00	AB040941.1	NT	Homo sapiens mRNA for KIAA1508 protein, partial cds
2940	15998	28921	4.91	0.0E+00	AB040941.1	NT	Homo sapiens mRNA for KIAA1508 protein, partial cds
2943	16001	28924	2.56	0.0E+00	7661903	NT	Homo sapiens KIAA0700 gene product (KIAA0700), mRNA
2943	16001	28925	2.56	0.0E+00	7661903	NT	Homo sapiens KIAA0700 gene product (KIAA0700), mRNA
2944	16002	28926	2.73	0.0E+00	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (t(11q24) homology), translocated to, 4 (MLLT4) mRNA
2944	16002	28927	2.73	0.0E+00	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (t(11q24) homology), translocated to, 4 (MLLT4) mRNA
2956	16014	28941	2.36	0.0E+00	4505084	NT	Homo sapiens melanoma antigen, family B, 4 (MAGEB4), mRNA
2956	16014	28942	2.36	0.0E+00	4505084	NT	Homo sapiens melanoma antigen, family B, 4 (MAGEB4), mRNA
2965	16023	28946	1.71	0.0E+00	4758827	NT	Homo sapiens neuritin III (NRXN3) mRNA
2968	16024	28952	1.03	0.0E+00	X98464.1	NT	H. sapiens mRNA for M phase phosphoprotein 10
2971	16029	28952	7.63	0.0E+00	AF106276.1	EST	Homo sapiens immunoglobulin-like transcript 1c variant 4 (ILT1c) gene, exon 6
2985	16043	28973	1.11	0.0E+00	AI149890.1	EST_HUMAN	qf43008.x1 Scores: testis_NHT Homo sapiens cDNA clone IMAGE:1752809 3'
2984	16052	28973	0.97	0.0E+00	4506118	NT	Homo sapiens prospero-related homeobox 1 (PROX1) mRNA
2985	16053	28974	2.71	0.0E+00	AB004884.1	NT	Homo sapiens mRNA for PKU-alpha, partial cds
3007	16068	28984	1.51	0.0E+00	7662273	NT	Homo sapiens KIAA0737 gene product (KIAA0737), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3008	16066	28995	1.96	0.0E+00	5729755	NT	Homo sapiens calcium channel, voltage-dependent, gamma subunit 3 (CACNG3), mRNA
3009	16066	28999	1.90	0.0E+00	5729755	NT	Homo sapiens calcium channel, voltage-dependent, gamma subunit 3 (CACNG3), mRNA
3016	16074	28994	0.95	0.0E+00	AF114488.1	NT	Homo sapiens intercalin short isoform (ITSN) mRNA, complete cds
3016	16074	28995	0.95	0.0E+00	AF114488.1	NT	Homo sapiens intercalin short isoform (ITSN) mRNA, complete cds
3038	16096		0.74	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
3040	16098	29014	1.28	0.0E+00	MT4099.1	NT	Human displacement protein (CCAA1) mRNA
3050	16107	29021	0.88	0.0E+00	4506892	NT	Homo sapiens semenogelin 1 (SEMG1) mRNA
3052	16109	29023	0.76	0.0E+00	AW976266.1	EST_HUMAN	EST388375 MAGE sequences, MAGN Homo sapiens cDNA
3057	16114		4.37	0.0E+00	AF186953.1	NT	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds
3060	16117	29031	15.24	0.0E+00	5579469	NT	Homo sapiens heat shock 70MD protein 1 (HSPA1A), mRNA
3060	16117	29032	15.24	0.0E+00	5579469	NT	Homo sapiens heat shock 70MD protein 1 (HSPA1A), mRNA
3062	16119		6.14	0.0E+00	AL359403.1	NT	Isoform 2 of a novel human mRNA from chromosome 22
3066	16123	29065	2.48	0.0E+00	AF017433.1	NT	Homo sapiens putative transcription factor CR53 (CR53) mRNA, partial cds
3069	16126		1.66	0.0E+00	AF196779.1	NT	Homo sapiens transcription factor (GHM) enhancer 3, JM11 protein, JM4 protein, JM5 protein, TS4 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synapophysin genes, complete cds; and L-type calcium channel α_2
3084	16141	29052	0.73	0.0E+00	AF170492.1	NT	Homo sapiens chloride channel CLC4 (CLC4) mRNA, complete cds
3092	16150	29064	12.69	0.0E+00	X03529.1	NT	Human gamma gene 18.1 for Ig lambda L-chain C region (IgL-C18.1)
3098	16156		1.77	0.0E+00	AF186355.1	NT	Homo sapiens F-box protein FBL5 (FBL5) mRNA, complete cds
3102	16169	29071	1.71	0.0E+00	AF084599.1	NT	Homo sapiens melanoma-associated antigen (MAGE-C1) gene, complete cds
3123	16180	29090	4.2	0.0E+00	AF265208.1	NT	Homo sapiens SWI-SNF complex protein p270 mRNA, partial cds
3124	16181	29091	4.88	0.0E+00	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exon 1, 2, and 3
3129	16186	29095	2.83	0.0E+00	7662139	NT	Homo sapiens KIAA0469 gene product (KIAA0469), mRNA
3130	16187	29095	1.56	0.0E+00	AF042075.1	NT	Homo sapiens olfactory receptor-like protein (OLFR 42B) gene, OLFR 42B-9110 allele, partial cds
3157	16213	29128	4.32	0.0E+00	4826783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
3165	16220	29135	22.34	0.0E+00	U0841.1	NT	Human ferritin heavy chain mRNA, complete cds
3168	16223	29138	1.3	0.0E+00	AB011121.1	NT	Homo sapiens mRNA for KIAA0549 protein, partial cds
3168	16223	29139	1.3	0.0E+00	AB011121.1	NT	Homo sapiens mRNA for KIAA0549 protein, partial cds
3174	16229	29145	21.23	0.0E+00	T94870.1	EST_HUMAN	ye3203 a1 Stragene lung (8637210) Homo sapiens cDNA clone IMAGE:119453 3' similar to SP-S28539
3180	16245	29163	1.13	0.0E+00	BF243336.1	EST_HUMAN	601878507F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4107433 5'
3192	16247	29164	1.11	0.0E+00	AI986098.1	EST_HUMAN	wt1210.x1 NCL_CGAP_55 Homo sapiens cDNA clone IMAGE:2516803 3'
3197	16252	29171	4.28	0.0E+00	X69922.1	NT	H sapiens mRNA for gamma-glutamyltransferase

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3197	16252	29172	4.28	0.0E+00	X98922.1	NT	H.sapiens mRNA for gamma-glutamyltransferase
3207	16262	29183	1.18	0.0E+00	4759327	NT	Homo sapiens neuroxin III (NRXN3) mRNA
3207	16282	29184	1.18	0.0E+00	4759327	NT	Homo sapiens neuroxin II (NRXN3) mRNA
3213	16268	29191	9.91	0.0E+00	4504568	NT	Homo sapiens interleukin 1 receptor, type I (IL1R) mRNA
3230	16285	29208	3.9	0.0E+00	M28699.1	NT	Homo sapiens nucleolar phosphoprotein B23 (NPM1) mRNA, complete cds
3234	16289	29211	1.55	0.0E+00	4502098	NT	Homo sapiens solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5 (SLC25A5) nuclear gene encoding mitochondrial protein, mRNA
3240	16295	29219	0.98	0.0E+00	4758055	NT	Homo sapiens CREB binding protein (Rubinstein-Tayl syndrome) (CREBBP) mRNA
3240	16295	29220	0.98	0.0E+00	4758055	NT	Homo sapiens CREB binding protein (Rubinstein-Tayl syndrome) (CREBBP) mRNA
3242	16297	29221	3.35	0.0E+00	AA74783.1	EST_HUMAN	aa87b11.s1 Stragere schizo brain S11 Homo sapiens cDNA clone IMAGE:571133 3'
3250	16305	29229	3.59	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3260	16305	29230	3.58	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3261	16315	29235	1.15	0.0E+00	4557560	NT	Homo sapiens fibrillin 1 (Marfan syndrome) (FBN1) mRNA
3267	16321	29243	1.02	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
3275	16326	29250	1.04	0.0E+00	AF019413.1	NT	Homo sapiens HLA class III region containing tenascin X (tenascin-X) gene, partial cds; cytochrome P450 21-hydroxylase (CYP21B), complement component C4 (C4B) G11, hepcase (SK2W), RD, complement factor B (Bf), and complement component C2 (C2) genes, >
3278	16332	29253	4.45	0.0E+00	AF055084.1	NT	Homo sapiens very large G-protein coupled receptor-1 (VLGR1) mRNA, complete cds
3288	16312	29261	2.4	0.0E+00	4502014	NT	Homo sapiens A kinase (PKA) anchor protein 1 (AKAP1), mRNA
3288	16312	29262	2.4	0.0E+00	4502014	NT	Homo sapiens A kinase (PKA) anchor protein 1 (AKAP1), mRNA
3303	16356	29275	2.99	0.0E+00	AF285208.1	NT	Homo sapiens SWI-SNF complex protein p270 mRNA, partial cds
3304	16357	29276	0.86	0.0E+00	8923824	NT	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA
3335	16386	29307	2.87	0.0E+00	AI589294.1	EST_HUMAN	U8808.x2.NC1.GGAP_Pant Homo sapiens cDNA clone IMAGE:222535 3' similar to SW:RL11_RAT
3343	16394	29315	2.44	0.0E+00	AF128893.1	NT	P25121 60S RIBOSOMAL PROTEIN L11, contains Alu repetitive element
3343	16394	29316	2.44	0.0E+00	AF128893.1	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 1-6
3344	16395	29317	0.85	0.0E+00	7657213	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 1-6
3344	16395	29318	0.85	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
3346	16397	29320	1.11	0.0E+00	4502582	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA
3346	16397	29320	1.11	0.0E+00	4502582	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA
3349	16400	29322	10.77	0.0E+00	AF111163.1	NT	Homo sapiens p270 (MEFV) gene, complete cds
3351	16402	29324	1.09	0.0E+00	AB040040.1	NT	Homo sapiens mRNA for KIAA1507 protein, partial cds
3358	16408	29330	0.85	0.0E+00	BE779039.1	EST_HUMAN	601464895F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3888246 5'

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3369	16419	29344	0.79	0.0E+00	AI632569.1	EST_HUMAN	Wt10D4.x1 NCL CGAP_G08 Homo sapiens cDNA clone IMAGE:2305279.3 similar to TR-Q91929 Q91929
3407	16459	29379	4.18	0.0E+00	AU123654.1	EST_HUMAN	ZINC FINGER PROTEIN ;
3414	16462	29382	1.15	0.0E+00	7963436	NT	Human sapiens NTRK2 Homo sapiens cDNA clone NT2RM200735.5
3414	16462	29383	1.15	0.0E+00	7963436	NT	Homo sapiens effector receptor, family 10, subfamily C, member 1 (OR10C1), mRNA
3417	16465	29385	6.29	0.0E+00	7706239	NT	Homo sapiens effector receptor, family 10, subfamily C, member 1 (OR10C1), mRNA
							Homo sapiens neuroblastoma-amplified protein (LOC51594), mRNA
3418	16466	29386	1.51	0.0E+00	AF211895.1	NT	Homo sapiens T-type calcium channel alpha subunit Alpha1a isoform (CACNA1) mRNA, complete cds
3436	16483	29401	1.13	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
3436	16483	29402	1.13	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
3437	16484	29403	1.05	0.0E+00	4502398	NT	Homo sapiens beaded filament structural protein 1, flensin (BFSP1), mRNA
							Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 2 (ILRA2), mRNA
3441	16488	29406	2.77	0.0E+00	5903067	NT	Homo sapiens skeletal muscle LIM-protein 1 (FHL-1) gene, complete cds
3450	15735	29751	1.38	0.0E+00	AF110763.1	NT	Homo sapiens death receptor 6 (DR6), mRNA
3455	16501	29419	2.15	0.0E+00	7657038	NT	Homo sapiens protein kinase, AMP-activated, alpha 2 catalytic subunit (PRKAA2), mRNA
3456	16502	29420	1.05	0.0E+00	5453965	NT	Homo sapiens protein kinase, AMP-activated, alpha 2 catalytic subunit (PRKAA2), mRNA
3456	16502	29421	1.05	0.0E+00	5453965	NT	Homo sapiens mRNA for rapa-2 (rapa gene)
3459	16505	29425	1	0.0E+00	AJ272776.1	NT	Homo sapiens mRNA for rapa-2 (rapa gene)
3459	16505	29426	1	0.0E+00	AJ272776.1	NT	Bacteriophage P1 replication region including repA, parA, and parB genes and IncA, IncB, and IncC incompatibility determinants
3460	16506	29427	5.65	0.0E+00	K02390.1	NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPR), mRNA
3463	16509	29430	1.31	0.0E+00	7427522	NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPR), mRNA
3469	16515	29435	5.12	0.0E+00	AI635199.1	EST_HUMAN	Wt14d10.x1 NCL CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2464919.3 similar to TR-Q73634 Q73634
							NEURAL CELL ADHESION MOLECULE ;
3469	16515	29436	5.12	0.0E+00	AI635199.1	EST_HUMAN	Wt14d10.x1 NCL CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2464919.3 similar to TR-Q73634 Q73634
3473	16519	29441	1.66	0.0E+00	AJ278120.1	NT	NEURAL CELL ADHESION MOLECULE ;
3476	16525	29449	6.24	0.0E+00	6652332	NT	Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
3476	16525	29450	6.24	0.0E+00	6652332	NT	Homo sapiens v-fos FBJ murine osteosarcoma viral oncogene homolog (FOS), mRNA
3485	16531	29456	1.06	0.0E+00	U14123.1	NT	Homo sapiens v-fos FBJ murine osteosarcoma viral oncogene homolog (FOS), mRNA
3490	16536	29461	6.78	0.0E+00	U49293.1	NT	Human endogenous retrovirus HERV-K10
3497	16544	29469	1.85	0.0E+00	AF045492.1	NT	Human MDST1A (AML1/MDST1) fusion mRNA, partial cds
3497	16544	29470	1.85	0.0E+00	AF045492.1	NT	Homo sapiens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds
3504	16551	29478	0.99	0.0E+00	AF231922.1	NT	Homo sapiens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds
							Homo sapiens chromosome 21 unknown mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLASTE Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3516	16562	29498	2.29	0.0E+00	BE304791.1	EST_HUMAN	601143853F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051373 5'
3516	16562	29497	2.29	0.0E+00	BE304791.1	EST_HUMAN	601143853F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051373 5'
3519	16565	29490	1.07	0.0E+00	4826785	NT	Homo sapiens potassium voltage-gated channel, Isk-related family, member 2 (KCNE2) mRNA
3521	16567	29491	1.24	0.0E+00	O14867	SWISSPROT	TRANSCRIPTION REGULATOR PROTEIN BACH1 (B1B AND CNC HOMOLOG 1) (HA2303)
3526	16572	29495	0.98	0.0E+00	AB384007.1	EST_HUMAN	603512.41 Scores, NIH/NIH, S1 Homo sapiens cDNA clone IMAGE:2088742 3' similar to TR_000458
3529	16575	29498	1.08	0.0E+00	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
3543	16599	29513	0.92	0.0E+00	AB032979.1	NT	Homo sapiens mRNA for KIAA1153 protein, partial cds
3543	16599	29514	0.92	0.0E+00	AB032979.1	NT	Homo sapiens mRNA for KIAA1153 protein, partial cds
3551	16597	29522	1.38	0.0E+00	AV701869.1	EST_HUMAN	AV701869 ADB Homo sapiens cDNA clone ADBDA106 5'
3552	16598	29523	0.92	0.0E+00	4508884	NT	Homo sapiens semaphorin II (SEMG2) mRNA
3554	16600	29531	1.03	0.0E+00	AF078868.1	NT	Homo sapiens homologous yeast-44.2 protein mRNA, complete cds
3553	16609	29531	0.82	0.0E+00	AL13204.1	NT	Novel human gene mapping to chromosome X
3567	16612	29534	1.21	0.0E+00	AB040909.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
3578	16623	29544	1.33	0.0E+00	8923087	NT	Homo sapiens hypothetical protein FLJ20380 (FLJ20380), mRNA
3588	16633	29551	1.16	0.0E+00	6997248	NT	Homo sapiens sar (Drosophila)-like 1 (SALL1), mRNA
3588	16633	29552	1.16	0.0E+00	6997248	NT	Homo sapiens sar (Drosophila)-like 1 (SALL1), mRNA
3590	16635	29555	1.08	0.0E+00	6325463	NT	Homo sapiens butyrophilin, subfamily 3, member A3 (BTN3A3), mRNA
3595	16640		4.69	0.0E+00	AW852217.1	EST_HUMAN	QV6-C10225-230300-169-001 CT0225 Homo sapiens cDNA
3602	16647		1.35	0.0E+00	AF118848.1	NT	Homo sapiens gamma-glutamylcysteine synthetase (GLC1 C) gene, partial cds
3603	16648	29564	10.51	0.0E+00	BF576393.1	EST_HUMAN	602084583F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4246596 5'
3617	16661	29579	1.04	0.0E+00	AW837977.1	EST_HUMAN	QV6-DT0047-170200-123-801 DT0047 Homo sapiens cDNA
3628	16672	29585	1.46	0.0E+00	BF672054.1	EST_HUMAN	602152486F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4236845 5'
3629	16673	29588	1.46	0.0E+00	BF672054.1	EST_HUMAN	602152486F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4236845 5'
3630	16673		0.84	0.0E+00	4826987	NT	Homo sapiens retinoblastoma-binding protein 2 (RBBP2) mRNA
3632	16675	29588	0.84	0.0E+00	AW664593.1	EST_HUMAN	h18490.t1 Scores, NFL_T, GBC_S1 Homo sapiens cDNA clone IMAGE:2979024 3'
3632	16675	29589	0.84	0.0E+00	AW664593.1	EST_HUMAN	h18490.t1 Scores, NFL_T, GBC_S1 Homo sapiens cDNA clone IMAGE:2979024 3'
3636	16679	29593	0.83	0.0E+00	4826763	NT	Homo sapiens heparan sulfate (glucosaminyl 3-O-sulfotransferase 1 (HS3ST1) mRNA
3638	16681	29596	1.03	0.0E+00	7682319	NT	Homo sapiens KIAA0806 gene product (KIAA0806), mRNA
3646	16689	29604	0.57	0.0E+00	4557752	NT	Homo sapiens midline 1 (Opitz/BBB syndrome) (MID1) mRNA
3646	16689	29605	0.57	0.0E+00	4557752	NT	Homo sapiens midline 1 (Opitz/BBB syndrome) (MID1) mRNA
3661	16704	29618	3.11	0.0E+00	DB7327.1	NT	Homo sapiens mRNA for G protein-coupled inward rectifier potassium channel, complete cds
3664	16707		10.78	0.0E+00	7689497	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPD), mRNA
3681	16724	29637	16.15	0.0E+00	AB026542.1	NT	Homo sapiens WAVE2 mRNA for WASP-family protein, complete cds

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3685	18728	29639	4.02	0.0E+00	AF124250.1	NT	Homo sapiens SH2-containing protein Nsp2 mRNA, complete cds
3685	18728	29640	4.02	0.0E+00	AF124250.1	NT	Homo sapiens SH2-containing protein Nsp2 mRNA, complete cds
3692	18735	29647	1.6	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
3692	18735	29648	1.8	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
3695	18738	29651	1.34	0.0E+00	AW65174.1	EST_HUMAN	MR2-CT0222-281088-005-cds C10222 Homo sapiens cDNA
3697	18740	29653	2.88	0.0E+00	S728228	NT	Homo sapiens matrix metalloproteinase 24 (membrane-inserted) (MMP24), mRNA
3699	18742	29655	1.37	0.0E+00	AB018339.1	NT	Homo sapiens mRNA for KIAA0796 protein, partial cds
3701	18744	29657	0.72	0.0E+00	O14967	SWISSPROT	TRANSCRIPTION REGULATOR PROTEIN BACH1 (BTB AND CNC HOMOLOG 1) (HA2303)
3703	18746	29659	1.45	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
3703	18746	29660	1.45	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
3705	18748	29662	1	0.0E+00	7692237	NT	Homo sapiens KIAA0870 protein/echinus (KIAA0870), mRNA
3705	18748	29663	1	0.0E+00	7692237	NT	Homo sapiens KIAA0870 protein/echinus (KIAA0870), mRNA
3719	18762	29672	4.6	0.0E+00	AW286134.1	EST_HUMAN	UL1-H-BW0-gls-e-12-0-UI st NCI CGAP Sub5 Homo sapiens cDNA clone IMAGE:2733022 3'
3719	18762	29673	4.6	0.0E+00	AW286134.1	EST_HUMAN	UL1-H-BW0-gls-e-12-0-UI st NCI CGAP Sub5 Homo sapiens cDNA clone IMAGE:2733022 3'
3742	18784	29696	1.47	0.0E+00	AB004630.1	NT	Human gene for Type XIX collagen $\alpha 1$ chain, exon 8
3743	18785	29697	1.06	0.0E+00	AA463659.1	EST_HUMAN	aa0901.1 Scores: NIHMPU_S1 Homo sapiens cDNA clone IMAGE:872498 5' similar to
3747	18789	29701	0.76	0.0E+00	AB020710.1	NT	SW-KRB4_SHEEP P02445 KERATIN, HIGH-SULFUR MATRIX PROTEIN, IIIB4, [1];
3750	18792	29703	3.92	0.0E+00	7657468	NT	Homo sapiens mRNA for KIAA0893 protein, partial cds
3760	18801	29713	0.77	0.0E+00	AB037835.1	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3772	18814	29723	5.84	0.0E+00	7692183	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
3775	18817	29726	18.76	0.0E+00	4506718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
3781	18822	29728	0.97	0.0E+00	7657055	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
3781	18822	29730	0.97	0.0E+00	7657055	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
3784	18825	29733	0.92	0.0E+00	4505594	NT	Homo sapiens plasminogen activator inhibitor, type II (arginine-serpin) (PAI2) mRNA
3834	18874	29775	3.15	0.0E+00	AF179733.1	NT	Pan troglodytes olfactory receptor (PTR208) gene, partial cds
3837	18877	29779	2.76	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3837	18877	29780	2.76	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3843	18883	29787	0.91	0.0E+00	AF127851.1	NT	Gailla gallus olfactory receptor (GGO71) gene, partial cds
3843	18883	29788	0.91	0.0E+00	AF127851.1	NT	Gailla gallus olfactory receptor (GGO71) gene, partial cds
3844	18884	29789	1.01	0.0E+00	AI037696.1	EST_HUMAN	h627101 Scores: NF_L_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2091307 3'
3845	18885	29791	1.81	0.0E+00	AF152408.1	NT	Homo sapiens prolactin beta 3 (PCDH-beta3) mRNA, complete cds
3846	18886	29790	0.97	0.0E+00	4758189	NT	Homo sapiens desmoglein (DPI, DPII) (DSP) mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLASTE Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3850	16890	29794	16.26	0.0E+00	S76985.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ9/BIR1) gene, complete cds
3852	16892	29796	2.25	0.0E+00	7710148	NT	Homo sapiens methyl CpG binding protein 2 (MECP2), mRNA
3853	16893	29797	1.54	0.0E+00	7682183	NT	Homo sapiens KIAA0598 gene product (KIAA0598), mRNA
3857	16897	29800	1.1	0.0E+00	4534534	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1D (HTR1D) mRNA
3862	16901	29803	1.15	0.0E+00	AB001523.1	NT	Homo sapiens gene for TMEM1 and PWP2, complete and partial cds
3862	16901	29806	1.15	0.0E+00	AB001523.1	NT	Homo sapiens gene for TMEM1 and PWP2, complete and partial cds
3863	16902	29807	0.77	0.0E+00	6912735	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
3868	16907	29815	7.17	0.0E+00	4933178	NT	Homo sapiens chromosome X open reading frame 5 (CXORF5) mRNA
3868	16907	29816	7.17	0.0E+00	4933178	NT	Homo sapiens chromosome X open reading frame 5 (CXORF5) mRNA
3870	16909	29819	4.34	0.0E+00	U09412.1	NT	Human zinc finger protein ZNF134 mRNA, complete cds
3871	16910	29820	1.13	0.0E+00	AF114488.1	NT	Homo sapiens intercedin short isoform (ITSN) mRNA, complete cds
3874	16913	29822	1.29	0.0E+00	4826783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
3877	16916	29825	1.3	0.0E+00	AF012615.1	NT	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 11
3878	16917	29826	2.38	0.0E+00	4759171	NT	Homo sapiens SCG5-interacting protein 1 (SRRP129), mRNA
3880	16919	29828	0.73	0.0E+00	AF095117.1	NT	Homo sapiens amphiphysin gene, partial cds
3889	16929	29838	2.34	0.0E+00	AI864727.1	EST_HUMAN	w01f01.x1 NCI CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2411065 3' similar to TR:O43340
3892	16932	29842	13.72	0.0E+00	4506742	NT	Homo sapiens ribosomal protein S8 (RPS8), mRNA
3897	16937	29848	1.39	0.0E+00	AL040338.1	EST_HUMAN	DKFZP434N0419.1 t1 434 (synonym: h8s3) Homo sapiens cDNA clone DKFZP434N0419 5'
3903	16943	29855	1.34	0.0E+00	6005987	NT	Homo sapiens AP1 gamma subunit binding protein 1 (AP1GBP1), mRNA
3903	16943	29856	1.34	0.0E+00	6005987	NT	Homo sapiens AP1 gamma subunit binding protein 1 (AP1GBP1), mRNA
3904	16944	29857	1.78	0.0E+00	4904138	NT	Homo sapiens glutamate receptor, metabotropic 3 (GRM3) mRNA
3906	16946	29857	1.75	0.0E+00	4506078	NT	Homo sapiens melanoma antigen, family B, 1 (MAGEB1) mRNA
3910	16950	29861	1.06	0.0E+00	AF149412.1	NT	Homo sapiens HBP17 heparin-binding and FGF-binding protein gene, complete cds
3924	16964	29877	1.17	0.0E+00	4506758	NT	Homo sapiens ryanodine receptor 3 (RYR3) mRNA
3928	16968	29881	1.3	0.0E+00	4565642	NT	Homo sapiens zinc finger protein (KIAA0412) mRNA
3936	16976	29890	1.64	0.0E+00	BF355285.1	EST_HUMAN	RC3-H10860-170860-071-ct12 HT0860 Homo sapiens cDNA
3937	16977	29891	1.05	0.0E+00	AW888221.1	EST_HUMAN	MXRA5 Human matrix tissue expression library Homo sapiens cDNA clone Incyte 1996726 similar to MXRA5
3937	16977	29892	1.05	0.0E+00	AW888221.1	EST_HUMAN	MXRA5 Human matrix tissue expression library Homo sapiens cDNA clone Incyte 1996726 similar to MXRA5
3947	16987	29902	1.85	0.0E+00	AF125533.1	NT	Homo sapiens F-box protein Fbl3b (FBL3B) mRNA, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3952	16902	29908	3.36	0.0E+00	BE37602.1	EST_HUMAN	6012369661 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:360800 5'
3961	17001	29918	1.06	0.0E+00	AW580740.1	EST_HUMAN	PM3-L1T0031-00100-003-H09 L1T0031 Homo sapiens cDNA
4001	17039	29945	5.21	0.0E+00	AF116195.1	NT	Homo sapiens cancer-testis antigen CT10 (CT10) gene, complete cds
4000	17038	29946	5.21	0.0E+00	AF116195.1	NT	Homo sapiens cancer-testis antigen CT10 (CT10) gene, complete cds
4010	17049		3.56	0.0E+00	M23610.1	NT	Human MHC class II lymphocyte antigen D-beta-2 pseudogene, exon 2
4013	17052		6.54	0.0E+00	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
4022	17060	29961	3.12	0.0E+00	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4031	17068	29970	1.59	0.0E+00	AL163258.2	NT	Homo sapiens chromosome 21 segment HS21C088
4036	17074	29974	0.99	0.0E+00	S78653.1	NT	mig-trms-related [human, Genomic, 2416 nt]
4047	17085		56.15	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
4054	17091		1.47	0.0E+00	AI657076.1	EST_HUMAN	AF5508.X1 NCL_CGAP_G08 Homo sapiens cDNA clone IMAGE:2244734 3' similar to TR:060309 O60309
4057	17093	29988	1.13	0.0E+00	7662183	NT	KIAA0563 PROTEIN, ;
4058	17094	29989	1.57	0.0E+00	UC9366.1	NT	Homo sapiens KIAA0569 gene product (KIAA0569) mRNA
4076	17111	30007	5.87	0.0E+00	AB015610.1	NT	Human zinc finger protein ZNF133
4085	17119		3.81	0.0E+00	AJ238617.1	NT	Chlorococcus aethiops mRNA for ribosomal protein S4X, complete cds
4093	17127	30020	1.14	0.0E+00	AL163203.2	NT	Homo sapiens mRNA for UGA suppressor RNA-associated antigenic protein (RNA48 gene)
4094	17128	30021	2.67	0.0E+00	AJ27276.1	NT	Homo sapiens chromosome 21 segment HS21C003
4064	17128	30022	2.67	0.0E+00	AJ27276.1	NT	Homo sapiens mRNA for rpsa-2 (rpsa gene)
4100	17134	30028	7.81	0.0E+00	5032026	NT	Homo sapiens retinoblastoma-binding protein 4 (RBBP4) mRNA
4100	17134	30028	7.81	0.0E+00	5032026	NT	Homo sapiens retinoblastoma-binding protein 4 (RBBP4) mRNA
4111	17145	30039	1.27	0.0E+00	4503814	NT	Homo sapiens phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylamidoimidazole synthetase (GART) mRNA
4117	17150	30042	4.06	0.0E+00	4885306	NT	Homo sapiens G protein-coupled receptor 21 (GPR21) mRNA
4118	17151	30043	1.32	0.0E+00	AB006625.1	NT	Homo sapiens mRNA for KIAA0287 gene, partial cds
4121	17154	30044	7.49	0.0E+00	11419287	NT	Homo sapiens tAF (nucleic acid phosphate) dehydrogenase 1 (IMPDH1), mRNA
4122	17155	30045	2.05	0.0E+00	AL096857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
4123	17162		1.21	0.0E+00	AA018975.1	EST_HUMAN	zef5609.r1 Scores refina N2B-HR Homo sapiens cDNA clone IMAGE:362820 5' similar to contains Alu repetitive element
4129	17166	30051	3.26	0.0E+00	AF16557.1	NT	Homo sapiens DQC88 (DQC88) mRNA, complete cds
4138	14177	27127	1.62	0.0E+00	4828947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
4138	14177	27128	1.62	0.0E+00	4828947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
4143	17175	30063	1.26	0.0E+00	5801905	NT	Homo sapiens butyrophilin, subfamily 3, member A2 (BTN3A2), mRNA
4144	17176	30064	1.09	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA

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4144	17176	30065	1.09	0.0E+00	4503854	NT	Homo sapiens G4-binding protein transcription factor, alpha subunit (80kD) (GABPA), mRNA
4148	16598	29523	0.86	0.0E+00	4509884	NT	Homo sapiens semaphorin II (SEMG2), mRNA
4148	17179	30067	0.8	0.0E+00	8922391	NT	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA
4148	17179	30068	0.8	0.0E+00	8922391	NT	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA
4163	17184	30071	0.66	0.0E+00	A9020702.1	NT	Homo sapiens mRNA for KIAA0895 protein, partial cds
4169	17190	30078	4.7	0.0E+00	A982597.1	EST_HUMAN	w04d04.x1 NCL CGAP_G66 Homo sapiens cDNA clone IMAGE:2515975 3'
4159	17190	30079	4.7	0.0E+00	A982597.1	EST_HUMAN	w04d04.x1 NCL CGAP_G66 Homo sapiens cDNA clone IMAGE:2515975 3'
4161	17192	30081	1.2	0.0E+00	BE194856.1	EST_HUMAN	MRI-HT0707-100500-001-402 HT0707 Homo sapiens cDNA
4161	17192	30082	1.2	0.0E+00	BE194856.1	EST_HUMAN	MRI-HT0707-100500-001-402 HT0707 Homo sapiens cDNA
4165	17196		3.98	0.0E+00	BE274217.1	EST_HUMAN	601120778F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2667650 5'
4170	17201	30087	0.93	0.0E+00	AB032951.1	NT	Homo sapiens mRNA for KIAA1125 protein, partial cds
4170	17201	30088	0.93	0.0E+00	AB032951.1	NT	Homo sapiens mRNA for KIAA1125 protein, partial cds
4172	17203	30090	1.02	0.0E+00	4507476	NT	Homo sapiens transglutaminase 3 (E polypeptide, protein-glutamine-gamma-glutamyltransferase) (TGM3), mRNA
4173	17204	30091	2.64	0.0E+00	6729725	NT	Homo sapiens nuclear receptor coactivator 3 (NCOA3), mRNA
4174	17205		1.13	0.0E+00	AL132993.1	NT	Novel human gene on chromosome 20
4183	17214		5.1	0.0E+00	AW675599.1	EST_HUMAN	ba5104.x1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900095 3' similar to SW:TH12_BOVIN
4188	17219	30106	1.12	0.0E+00	AW408768.1	EST_HUMAN	C95108 MITOCHONDRIAL THIOREDOXIN PRECURSOR ;
4190	17221	30109	1.23	0.0E+00	8922466	NT	ULHF-BM0-adv-c20-0-ULF NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3083147 5'
4190	17221	30110	1.23	0.0E+00	8922466	NT	Homo sapiens hypothetical protein FLJ10498 (FLJ10498), mRNA
4200	17231		4.37	0.0E+00	5174632	NT	Homo sapiens polyketide kidney disease (polyketin) and REJ (sperm receptor for egg jelly, sea urchin homolog)-like (PKDREJ), mRNA
4220	17249	30133	9.8	0.0E+00	AA401438.1	EST_HUMAN	zu69h07.s1 Soares, Jettis, NHT Homo sapiens cDNA clone IMAGE:743197 3' similar to contains Alu repetitive element; contains element MER35 repetitive element ;
4220	17249	30134	9.8	0.0E+00	AA401438.1	EST_HUMAN	zu69h07.s1 Soares, Jettis, NHT Homo sapiens cDNA clone IMAGE:743197 3' similar to contains Alu repetitive element; contains element MER35 repetitive element ;
4235	17284	30149	1.04	0.0E+00	4507720	NT	Homo sapiens tbin (TTN) mRNA
4235	17284	30150	1.04	0.0E+00	4507720	NT	Homo sapiens tbin (TTN) mRNA
4258	17287		0.87	0.0E+00	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
4268	17315	30194	1.26	0.0E+00	AJ003145.1	NT	Homo sapiens mRNA for alfactory receptor protein, pseudogene
4302	17331	30211	2.19	0.0E+00	J02810.1	NT	Human apolipoprotein B-100 mRNA, complete cds
4317	17346	30230	0.87	0.0E+00	AW936689.1	EST_HUMAN	PM2-DT0023-080300-004-608 DT0023 Homo sapiens cDNA
4322	17351	30236	0.74	0.0E+00	4826827	NT	Homo sapiens myelodysplasia syndrome 1 (MDS1), mRNA

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4322	17351	30237	0.74	0.0E+00	4826827	NT	Homo sapiens myelodysplasia syndrome 1 (MDS1) mRNA
4324	17353	30239	3.98	0.0E+00	AF174590.1	NT	Homo sapiens F-box protein Fbx4 (FBL4) mRNA, partial cds
4332	17360		2.53	0.0E+00	A1189844.1	EST_HUMAN	gc23063.t Soares_placenta_80cweeks_2N61P6b59W Homo sapiens cDNA clone IMAGE:1724579 3' similar to contains MER20.b2 MER20 repetitive element;
4336	17363		5.62	0.0E+00	U14520.1	NT	Human CSF3A3 (Csf3a3) gene, partial cds
4347	17374	30254	0.92	0.0E+00	4505648	NT	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA
4353	17380	30261	0.77	0.0E+00	6563384	NT	Homo sapiens protein kinase C, nu (PRKCN), mRNA
4353	17380	30262	0.77	0.0E+00	6563384	NT	Homo sapiens protein kinase C, nu (PRKCN), mRNA
4359	17386	30268	1.15	0.0E+00	U10991.1	NT	Human G2 protein mRNA, partial cds
4359	17386	30269	1.15	0.0E+00	U10991.1	NT	Human G2 protein mRNA, partial cds
4369	17396	30275	0.63	0.0E+00	6912281	NT	Homo sapiens COMPLEMENT COMPONENT C1q RECEPTOR (C1QR), mRNA
4387	17415		1.12	0.0E+00	AF153047.2	NT	Homo sapiens gap junction protein connexin-36 (CX36) gene, complete cds
4392	17420	30303	11.19	0.0E+00	U03901.1	NT	Human Ig light chain VL1 region germline (humv1c2c) gene, partial cds
4398	17426	30310	4.52	0.0E+00	L14561.1	NT	Homo sapiens plasma membrane calcium ATPase isoform 1 (ATP2B1) gene, alternative splice products, partial cds
4402	17430	30315	6.75	0.0E+00	282780.1	NT	H.sapiens H2B/h gene
4402	17430	30316	6.75	0.0E+00	282780.1	NT	H.sapiens H2B/h gene
4408	17436	30322	1.31	0.0E+00	X60483.1	NT	H.sapiens H4/d gene for H4 histone
4408	17436	30323	1.31	0.0E+00	X60483.1	NT	H.sapiens H4/d gene for H4 histone
4413	17440	30329	9.47	0.0E+00	7662091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4413	17440	30330	9.47	0.0E+00	7662091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4423	17450	30341	1.22	0.0E+00	X62338.1	NT	Homo sapiens Wierkes disease gene, exon 4
4426	17453	30345	15	0.0E+00	4685126	NT	Homo sapiens caudal type homeo box transcription factor 4 (CDX4), mRNA
4427	17454	30346	1.23	0.0E+00	AJ271736.1	NT	Homo sapiens Xk pseudautosomal region; segment 2/2
4430	17457	30348	1.01	0.0E+00	AB037781.1	NT	Homo sapiens myosin regulatory light chain interacting protein (MIR), mRNA
4433	17459	30376	1.2	0.0E+00	7018456	NT	Homo sapiens myosin regulatory light chain interacting protein (MIR), mRNA
4471	17497		5.71	0.0E+00	AF195953.1	NT	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds
4476	17502	30386	1.53	0.0E+00	AJ249765.1	NT	Homo sapiens ACTN2 gene for alpha-Actinin 2, exon 10
4476	17502	30387	1.53	0.0E+00	AJ249765.1	NT	Homo sapiens ACTN2 gene for alpha-Actinin 2, exon 10
4480	17505	30393	0.88	0.0E+00	W26176.1	EST_HUMAN	2467 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
4480	17505	30394	0.88	0.0E+00	W26176.1	EST_HUMAN	2467 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
4495	17520		2.47	0.0E+00	AF200628.1	NT	Homo sapiens HPST gene, intron 5
4514	17539	30424	0.63	0.0E+00	T10233.1	EST_HUMAN	seq1329 b4HB3MA CoB-HAP-F1 Homo sapiens cDNA clone b4HB3MA-CO1B-HAP-F1205 5'
4514	17539	30425	0.63	0.0E+00	T10233.1	EST_HUMAN	seq1329 b4HB3MA CoB-HAP-F1 Homo sapiens cDNA clone b4HB3MA-CO1B-HAP-F1205 5'

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4517	17542		0.9	0.0E+00	M14123.1	NT	Human endogenous retrovirus HERV-K10
4529	17553	30441	3.45	0.0E+00	AW084964.1	EST_HUMAN	xc69608.x1 NCI CGAP Es62 Homo sapiens cDNA clone IMAGE:2589446 3' similar to SW-AHNK_HUMAN
4531	18318		1.85	0.0E+00	8031619	NT	Q08666 NEUROBLAST DIFFERENTIATION ASSOCIATED PROTEIN AHNAK ; Homo sapiens LIM domain kinase 2 (LIMK2), transcript variant 2a, mRNA
4533	17556	30444	1.09	0.0E+00	AI966988.1	EST_HUMAN	xc56602.x1 NCI CGAP P-28 Homo sapiens cDNA clone IMAGE:232603 3' similar to contains MER22.52 PTT85 repetitive element.
4537	17562		8.59	0.0E+00	AL163207.2	NT	Homo sapiens chromosome 21 segment HS21C007
4539	17562	30449	1.96	0.0E+00	AW381570.1	EST_HUMAN	PM1-HT10305-1071199-002-003 H10305 Homo sapiens cDNA
4545	17568	30456	1.2	0.0E+00	AJ278120.1	NT	Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
4546	17568	30457	1.2	0.0E+00	AJ278120.1	NT	Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
4547	17570	30459	1.73	0.0E+00	4758467	NT	Homo sapiens G protein-coupled receptor 50 (GPR50) mRNA
4548	17571	30460	2.8	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
4553	17576	30466	0.94	0.0E+00	Z66526.1	NT	H. sapiens pancreatic polypeptide receptor PP1 gene
4554	17577	30467	0.96	0.0E+00	4506952	NT	Homo sapiens sialyltransferase 8 (alpha-N-acetylneuraminic acid-2,8-sialyltransferase, GD3 synthase) (SIAT8) mRNA
4559	17582	30473	0.93	0.0E+00	S76584.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6BIR1) gene, exon
4560	17583	30474	1.91	0.0E+00	AF111163.1	NT	Homo sapiens pyrim (MEFV) gene, complete cds
4560	17583	30475	1.91	0.0E+00	AF111163.1	NT	Homo sapiens pyrim (MEFV) gene, complete cds
4570	18318	30486	2.31	0.0E+00	6005673	NT	Homo sapiens zinc finger protein 195 (ZNF195), mRNA
4576	17597	30491	6.31	0.0E+00	AF208161.1	NT	Homo sapiens synovial precursor, mRNA, complete cds
4582	17604	30501	1.32	0.0E+00	5454175	NT	Homo sapiens zinc finger protein 211 (ZNF211), mRNA
4585	17616	30510	30.53	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1, alpha 1 (EEF1A1), mRNA
4593	17626	30618	1.62	0.0E+00	4503068	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
4610	17631	30524	1.4	0.0E+00	4502566	NT	Homo sapiens calcium/calmodulin-dependent protein kinase IV (CAMK4) mRNA
4614	17635		2.89	0.0E+00	L35485.1	NT	Homo sapiens iduronate sulphatase (IDS) gene, complete cds
4616	17637	30526	13.95	0.0E+00	7652091	NT	Homo sapiens KIAA03090 gene product (KIAA03090), mRNA
4618	17637	30527	13.95	0.0E+00	7652091	NT	Homo sapiens KIAA03090 gene product (KIAA03090), mRNA
4632	17653	30540	1.97	0.0E+00	AF143314.1	NT	Homo sapiens PTEN (PTEN) gene, exons 3 through 5
4635	17656	30543	10.93	0.0E+00	AJ245418.1	NT	Homo sapiens mRNA for G7c protein (G7c gene located in the class III region of the major histocompatibility complex)
4635	17656	30544	10.93	0.0E+00	AJ245418.1	NT	Homo sapiens mRNA for G7c protein (G7c gene located in the class III region of the major histocompatibility complex)
4637	17658	30545	1.21	0.0E+00	A3018338.1	NT	Homo sapiens mRNA for KIAA0795 protein, partial cds
4645	17666		46.99	0.0E+00	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4654	17675		1.51	0.0E+00	AA174072.1	EST_HUMAN	zp18g08.s1 Striatagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:60854 3'
4656	17677		1.62	0.0E+00	7657410	NT	Homo sapiens odc (odd Ozlinenh. Drosophila) homolog 1 (ODZ1), mRNA
4658	17679		2.05	0.0E+00	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4659	17680	30565	0.95	0.0E+00	H62741.1	EST_HUMAN	y62201.s1 Soares_pineal_gland_NSHPG Homo sapiens cDNA clone IMAGE:231721 3'
4659	17680	30566	0.95	0.0E+00	H62741.1	EST_HUMAN	y62201.s1 Soares_pineal_gland_NSHPG Homo sapiens cDNA clone IMAGE:231721 3'
4660	17681	30567	1.42	0.0E+00	AF184110.1	NT	Homo sapiens cyclophilin-related protein (NKTR) gene, complete cds
4661	17682	30568	5.93	0.0E+00	AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
4662	17683		1.84	0.0E+00	AB037521.1	NT	Homo sapiens gene for natriuretic protein, partial cds
4664	17685	30569	0.66	0.0E+00	AF185658.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
4664	17685	30570	1.04	0.0E+00	AL162331.1	NT	Novel human gene mapping to chromosome 1
4672	17683	30579	1.89	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
4672	17683	30580	1.89	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
4673	17684	30581	1.26	0.0E+00	AF167441.1	NT	Mus musculus E-cadherin binding protein E7 mRNA, complete cds
4682	17703	30592	1	0.0E+00	L73810.1	NT	Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds
4682	17703	30593	1	0.0E+00	L73810.1	NT	Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds
4682	17703	30594	1	0.0E+00	L73810.1	NT	Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds
4683	17704	30595	2.03	0.0E+00	AB028970.1	NT	Homo sapiens mRNA for KIAA1047 protein, partial cds
4683	17704	30596	2.03	0.0E+00	AB028970.1	NT	Homo sapiens mRNA for KIAA1047 protein, partial cds
4688	17709	30602	6.02	0.0E+00	Y18890.1	NT	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes
4699	17720		2.24	0.0E+00	AF086641.1	NT	Homo sapiens truncated telomerase X8 (TNXB) gene, partial cds and TNXA gene recombination breakpoint region
4704	17725	30619	2.92	0.0E+00	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
4704	17725	30620	2.92	0.0E+00	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
4705	17726	30621	3.31	0.0E+00	M74095.1	NT	Human displacement protein (OCAAT) mRNA
4709	17730	30624	2.42	0.0E+00	6453812	NT	Homo sapiens bulyophilin, subfamily 2, member A2 (BTN2A2), mRNA
4709	17730	30625	2.42	0.0E+00	6453812	NT	Homo sapiens bulyophilin, subfamily 2, member A2 (BTN2A2), mRNA
4711	13244	26174	2.02	0.0E+00	T56945.1	EST_HUMAN	y63p04.r2 Striatagene fetal spleen (6937205) Homo sapiens cDNA clone IMAGE:68310 5'
4711	13244	26175	2.02	0.0E+00	T56945.1	EST_HUMAN	y63p04.r2 Striatagene fetal spleen (6937205) Homo sapiens cDNA clone IMAGE:68310 5'
4713	17733		1.22	0.0E+00	BE278730.1	EST_HUMAN	601158935F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3505521 5'
4737	17767	30651	4.85	0.0E+00	5728817	NT	Homo sapiens ecotropic viral integration site 2B (EVI2B), mRNA
4737	17767	30652	4.85	0.0E+00	5728817	NT	Homo sapiens ecotropic viral integration site 2B (EVI2B), mRNA
4743	17763	30657	5.95	0.0E+00	M83602.1	NT	Human ANNAK nucleoprotein mRNA, 5' end
4746	17766	30660	6.92	0.0E+00	M69197.1	NT	Human haptoglobin and haptoglobin-related protein (HP and HPR) genes, complete cds
4746	17766	30661	6.62	0.0E+00	M69197.1	NT	Human haptoglobin and haptoglobin-related protein (HP and HPR) genes, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4750	17770	30666	2.21	0.0E+00	AF184110.1	NT	Homo sapiens cyclophilin-related protein (NKTR) gene, complete cds
4752	17772	30668	24.53	0.0E+00	7692479	NT	Homo sapiens KIAA1004 protein (KIAA1004), mRNA
4754	17774	30669	2.9	0.0E+00	7692181	NT	Homo sapiens KIAA0563 gene product (KIAA0563), mRNA
4760	17780	30675	0.96	0.0E+00	S71446.1	NT	SCN1A=brain type I sodium channel alpha-subunit (IIIS transmembrane region) [human, placenta, Genomic, 1556 nt]
4760	17780	30676	0.96	0.0E+00	S71446.1	NT	SCN1A=brain type I sodium channel alpha-subunit (IIIS transmembrane region) [human, placenta, Genomic, 1556 nt]
4765	17785	30681	0.96	0.0E+00	AL096857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
4770	17790		1.25	0.0E+00	X98487.1	NT	Human CYP2D7AP pseudogene for cytochrome P450 2D6
4781	17801	30691	0.81	0.0E+00	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
4781	17801	30692	0.81	0.0E+00	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
4792	17809	30701	1.56	0.0E+00	6677700	NT	Homo sapiens alpha-3 type IX collagen (COL3A3) gene, promoter region, and exons 1-26
4795	17812	30704	1.12	0.0E+00	6677700	NT	Homo sapiens G-protein coupled receptor (RE2), mRNA
4795	17812	30705	1.12	0.0E+00	6677700	NT	Homo sapiens G-protein coupled receptor (RE2), mRNA
4797	17814	30707	1.12	0.0E+00	7019320	NT	Homo sapiens protein0008 (AD013), mRNA
4797	17814	30708	1.12	0.0E+00	7019320	NT	Homo sapiens protein0008 (AD013), mRNA
4825	17842	30740	1.49	0.0E+00	AW444637.1	EST HUMAN	UHLB13-glyc-04-CU-01 NC1 CGAP. Sub5 Homo sapiens cDNA clone IMAGE:2793294.3
4831	17848	30749	0.99	0.0E+00	AF030134.1	NT	Homo sapiens aldehyde dehydrogenase 12 (ALDH12) mRNA, complete cds
4832	17849		1.83	0.0E+00	AF083242.1	NT	Homo sapiens HSPC024-iso mRNA, complete cds
4873	17890	30778	0.68	0.0E+00	J00191.1	NT	Human MHC class I transplantation antigen (hla) gene
4873	17890	30779	0.68	0.0E+00	J00191.1	NT	Human MHC class I transplantation antigen (hla) gene
4879	17896		4.64	0.0E+00	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
4882	17899	30788	1.6	0.0E+00	X67205.1	NT	MA fasciculans mRNA for metalloproteinase-like, disintegrin-like protein, Iva
4884	17901	30790	0.93	0.0E+00	AF094479.1	NT	Homo sapiens Williams-Baron syndrome deletion transcript 5 (WBSOR5) mRNA, complete cds
4885	17902	30791	1.29	0.0E+00	AF097416.1	NT	Mus musculus zinc finger transcription factor Kaiso mRNA, complete cds
4886	17903	30792	3.04	0.0E+00	4503769	NT	Homo sapiens fragile X mental retardation 2 (FMR2) mRNA
4888	17905	30794	13.14	0.0E+00	4885048	NT	Homo sapiens actin, alpha, cardiac muscle (ACTC), mRNA
4889	17906	30795	1.37	0.0E+00	P52740	SWISSPROT	ZINC FINGER PROTEIN 132
4891	17908	30797	1.65	0.0E+00	8922180	NT	Homo sapiens hypothetical protein DKFZp782E1312 (DKFZp782E1312), mRNA
4894	17911	30801	4.6	0.0E+00	8923060	NT	Homo sapiens hypothetical protein FL20073 (FL20073), mRNA
4898	17915	30805	1.75	0.0E+00	M94081.1	NT	Human Tcr-C-delta gene, exons 1-4; Tcr-V-delta gene, exons 1-2; T-cell receptor alpha (Tcr-alpha) gene, J1-J61 segments; and Tcr-C-alpha gene, exons 1-4

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4898	17915	30806	1.75	0.0E+00	M94081.1	NT	Human Tcr-C-delta gene, exons 1-4; Tcr-V-delta gene, exons 1-2; T-cell receptor alpha (Tcr-alpha) gene, J1-J61 segments; and Tcr-C-alpha gene, exons 1-4
4900	17917	30808	1.49	0.0E+00	X94628.1	NT	H.sapiens MeCP-2 gene
4901	17917	30809	1.49	0.0E+00	X94628.1	NT	H.sapiens MeCP-2 gene
4903	17920	30812	2.38	0.0E+00	AL163290.2	NT	Homo sapiens chromosome 21 segment HS21C080
4912	17929	30820	1.16	0.0E+00	5032150	NT	Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polymerase II, 1, 28KD (TAF21)
4921	17938	30830	1.59	0.0E+00	X92841.1	NT	H.sapiens MICA gene
4923	17940	30832	1.34	0.0E+00	4585642	NT	Homo sapiens zinc finger protein (KIAA0412) mRNA
4924	17941	30833	0.89	0.0E+00	AB037864.1	NT	Homo sapiens mRNA for KIAA1443 protein, partial cds
4926	17942	30834	1.25	0.0E+00	Y09232.1	NT	H.sapiens fertilin alpha pseudogene
4928	17943	30835	1.17	0.0E+00	AB014533.1	NT	Homo sapiens mRNA for KIAA0633 protein, partial cds
4927	17944	30836	2.3	0.0E+00	6677648	NT	Mus musculus zinc finger protein interacting with K protein 1 (Zfk1), mRNA
4928	17946	30838	1.49	0.0E+00	4758189	NT	Homo sapiens desmoplakin (DPL, DP11) (DSP) mRNA
4930	17947	30839	0.97	0.0E+00	Y16723.1	NT	Homo sapiens gene encoding titensin, exon 8
4931	17948	30840	1.15	0.0E+00	7705548	NT	Homo sapiens zinc-finger DNA-binding protein (HUMHOXY1), mRNA
4932	17949	30841	25.08	0.0E+00	AJ010442.1	NT	Homo sapiens mRNA for immunoglobulin kappa light chain, anti-RhD, theraad 7
4936	17952	30844	25.15	0.0E+00	AF055080.1	NT	Homo sapiens MHC class I region
4938	17954	30845	1.97	0.0E+00	4505508	NT	Homo sapiens opioid receptor, delta 1 (OPRD1) mRNA
4939	17955	30847	2.01	0.0E+00	AF091711.1	NT	Homo sapiens splice variant AKAP350 mRNA, partial cds
4941	17957	30857	0.81	0.0E+00	U39965.1	NT	Homo sapiens fibronectin containing monooxygenase 3 (FMO3) gene, exon 7
4952	17967	30857	0.96	0.0E+00	D93562.1	NT	Homo sapiens COL4A3 gene for alpha1(V) collagen, exon 44 and partial cds
4954	17969	30859	1.82	0.0E+00	4503684	NT	Homo sapiens farnesyl diphosphate synthase (farnesyl pyrophosphate synthetase, diethylallyltransferase, geranyltransferase) (FPPS) mRNA
4961	17976		0.96	0.0E+00	AI281128.1	EST_HUMAN	qmi305x1 NC1 CGAP Ldb Homo sapiens cDNA clone IMAGE:1881921 3' similar to TR:Q61632 Q61632
4972	17987	30878	0.93	0.0E+00	4504082	EST	EN-21ACZ FUSION PROTEIN ;
4972	17987	30879	0.93	0.0E+00	4504082	NT	Homo sapiens glypican 4 (GPC4) mRNA
4990	18005	30893	1.88	0.0E+00	AL163284.2	NT	Homo sapiens glypican 4 (GPC4) mRNA
4995	18010	30897	1.24	0.0E+00	7682319	NT	Homo sapiens chromosome 21 segment HS21C084
5008	18022		6.04	0.0E+00	U14967.1	NT	Homo sapiens KIAA0808 gene product (KIAA0808), mRNA
5018	18032	30918	1.06	0.0E+00	MT0976.1	NT	Human ribosomal protein L21 mRNA, complete cds
5020	18034		2.76	0.0E+00	BE408863.1	EST_HUMAN	Human endosomal protein L21 mRNA, complete segment
5023	18037	30922	3.2	0.0E+00	4758189	NT	601303729F1 NIH_MGC 21 Homo sapiens cDNA clone IMAGE:3638118 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top Hit) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5030	18044	30928	1.24	0.0E+00	AB028968.1	NT	Homo sapiens mRNA for KIAA1043 protein, partial cds
5044	18057	30935	1.97	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
5044	18057	30936	1.97	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
5057	18068	30947	0.75	0.0E+00	AA601246.1	EST_HUMAN	no14q08.31 NCI CGAP Phet1 Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR:E239140
5057	18068	30948	0.75	0.0E+00	AA601246.1	EST_HUMAN	no14q08.31 NCI CGAP Phet1 Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR:E239140
5057	18068	30949	0.75	0.0E+00	AA601246.1	EST_HUMAN	no14q08.31 NCI CGAP Phet1 Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR:E239140
5074	18084	30974	1.34	0.0E+00	4758228	NT	Homo sapiens E2F transcription factor 2 (E2F2) mRNA
5088	18098	30974	0.8	0.0E+00	U53588.1	NT	Homo sapiens MHC class 1 region
5094	18104	31009	1.27	0.0E+00	AL183209.2	NT	Homo sapiens chromosome 21 segment HS21C009
5097	18107	31009	24.84	0.0E+00	D50857.1	NT	Homo sapiens gamma-cytoplasmic actin (ACTG13) pseudogene
5121	18132	31009	3.45	0.0E+00	X52983.1	NT	Bacillus amyloquelificans sacB gene for levansucrase (EG 2.4.1.10)
5141	18150	31029	0.98	0.0E+00	AF240635.1	NT	Homo sapiens vascular endothelial cadherin 2 mRNA, complete cds
5141	18150	31030	0.98	0.0E+00	AF240635.1	NT	Homo sapiens vascular endothelial cadherin 2 mRNA, complete cds
5142	18151	31031	0.95	0.0E+00	5454153	NT	Homo sapiens cyclophilin (USA-CYP) mRNA
5171	18180	31057	1.07	0.0E+00	Y12477.1	NT	Homo sapiens putative GPR37 gene, exon 2
5171	18180	31058	1.07	0.0E+00	Y12477.1	NT	Homo sapiens putative GPR37 gene, exon 2
5176	18195	31082	1.31	0.0E+00	4507720	NT	Homo sapiens filin (TTN) mRNA
5208	18217	31082	0.84	0.0E+00	7706245	NT	Homo sapiens 4F2 light chain (LOC51597), mRNA
5208	18217	31083	0.84	0.0E+00	7706245	NT	Homo sapiens 4F2 light chain (LOC51597), mRNA
5216	18227	31101	1.13	0.0E+00	U26556.1	NT	Human varicella Z core protein precursor spliced-variant mRNA, complete cds
5221	18229	31103	1.01	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNH) mRNA, complete cds
5221	18229	31104	1.01	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNH) mRNA, complete cds
5236	18244	31116	1.11	0.0E+00	4826777	NT	Homo sapiens jumortj (mouse) homolog (JMJ) mRNA
5257	18265						Human oligodendrocyte myelin glycoprotein (OMG) exons 1-2; neurofibromatosis 1 (NF1) exons 28-49; ecotropic viral integration site 2B (EV12B) exons 1-2; ecotropic viral integration site 2A (EV12A) exons 1-2; adenylate kinase (AK3) exons 1-2
5284	18272		1.35	0.0E+00	LQ5367.1	NT	Homo sapiens T-cell receptor gamma V1 gene region
5296	18301	31161	0.63	0.0E+00	AF037177.1	NT	Homo sapiens mRNA for neuron alpha protein, complete cds
5305	18308		2.09	0.0E+00	AL040249.1	EST_HUMAN	DKFZp434i0713.1 J1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434i0713.5
5313	18329		3.2	0.0E+00	AF093093.1	NT	Homo sapiens acylase (ACO2) gene, nuclear gene encoding mitochondrial protein, exon 15
5324	18430	31181	2.03	0.0E+00	AF137288.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds

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5324	18430	31182	2.03	0.0E+00	AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
5346	18451	31322	1.19	0.0E+00	AI034954.1	EST_HUMAN	wp05g08.x1 NCI_CGAP_R1412 Homo sapiens cDNA clone IMAGE:2464084 3'
5349	18454	31325	1.2	0.0E+00	9256576	NT	Homo sapiens procachectin alpha 13 (PCDH13), mRNA
5354	18469	31340	4.04	0.0E+00	BE931080.1	EST_HUMAN	RC3-GN0076-31080-013-503 GN0076 Homo sapiens cDNA
5368	18473	31344	2.93	0.0E+00	AF182034.1	NT	Homo sapiens polyketide synthase-like 2 protein (PKDL2) mRNA, complete cds
5368	18473	31345	2.93	0.0E+00	AF182034.1	NT	Homo sapiens polyketide synthase-like 2 protein (PKDL2) mRNA, complete cds
5376	18480	31354	32.34	0.0E+00	X56163.1	NT	H sapiens immunoglobulin heavy chain gene, variable region
5376	18480	31355	32.34	0.0E+00	X56163.1	NT	H sapiens immunoglobulin heavy chain gene, variable region
5427	18569	31470	8.37	0.0E+00	BE075498.1	EST_HUMAN	711006.x1 NCI_CGAP_CL11 Homo sapiens cDNA clone IMAGE:3284250 3'
5468	18560	31471	1.72	0.0E+00	BE220753.1	EST_HUMAN	H99402.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3165104 3' similar to SW:Y054_HUMAN
5450	18561	31472	1.89	0.0E+00	BE794412.1	EST_HUMAN	P42604 HYPOTHETICAL PROTEIN KIAA0054. ;
5450	18561	31473	1.89	0.0E+00	BE794412.1	EST_HUMAN	601589422F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943804 5'
5460	18562	31474	0.83	0.0E+00	AI189142.1	EST_HUMAN	601589422F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943804 5'
5464	18566	31477	18.78	0.0E+00	M26906.1	NT	601589422F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943804 5'
5468	18570	31480	0.56	0.0E+00	A1791363.1	EST_HUMAN	q004d04.x1 Sources: placenta_Budweicks_2h4HP8u9W Homo sapiens cDNA clone IMAGE:1722702 3' similar to SW:12D3_DROME_P48946 TRANSCRIPTION INITIATION FACTOR TIFID 85 KD SUBUNIT ;
5478	256309	31468	4.25	0.0E+00	11421038	NT	Homo sapiens oestriophil peroxidase (EPP) gene, exon 7
5488	18588	31469	1.72	0.0E+00	BF65962.1	EST_HUMAN	HEAVY CHAIN PRECURSOR V-J REGION (HUMAN);
5489	18589	31499	0.77	0.0E+00	AI134406.1	EST_HUMAN	Homo sapiens Sp4 transcription factor (SP4), mRNA
5489	18589	31500	0.77	0.0E+00	AI134406.1	EST_HUMAN	602118928F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4276254 5'
5495	18595	31507	0.64	0.0E+00	BE538657.1	EST_HUMAN	AU134406 OVARGT1 Homo sapiens cDNA clone OVARC1001894 5'
5504	18604	31533	1.22	0.0E+00	BE292784.1	EST_HUMAN	601061489F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3447839 5'
5509	18609	31539	2.05	0.0E+00	BF526328.1	EST_HUMAN	601105801F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2698310 5'
5509	18609	31540	2.05	0.0E+00	BF526328.1	EST_HUMAN	602071372F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4214272 5'
5529	20048	33350	2.31	0.0E+00	4657364	NT	602071372F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4214272 5'
5532	18630	31567	1.03	0.0E+00	AB007635.1	NT	Homo sapiens Bloom syndrome (BLM) mRNA
5532	18630	31568	1.03	0.0E+00	AB007635.1	NT	Homo sapiens mRNA for KIAA0466 protein, partial cds
5536	18633	31572	4.25	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
5536	18633	31573	4.25	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
5550	18647	31589	1.19	0.0E+00	D26535.1	NT	Human gene for dihydropyrimidine succinyltransferase, complete cds (exon 1-15)
5550	18647	31590	1.19	0.0E+00	D26535.1	NT	Human gene for dihydropyrimidine succinyltransferase, complete cds (exon 1-15)

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5663	18633	31623	1.8	0.0E+00	11420819	NT	Homo sapiens diacylglycerol receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
5672	18668	31629	1.55	0.0E+00	Z38133.1	NT	H sapiens mRNA for myosin
5591	18687	31655	0.87	0.0E+00	D61564.1	EST_HUMAN	HUM418005B Clontech human fetal brain polyA ⁺ mRNA (56535) Homo sapiens cDNA clone GEN-418D05
5591	18687	31656	0.87	0.0E+00	D61564.1	EST_HUMAN	HUM418005B Clontech human fetal brain polyA ⁺ mRNA (56535) Homo sapiens cDNA clone GEN-418D05
5594	18690	31660	3.21	0.0E+00	BF526931.1	EST_HUMAN	602042322F1 NCI CGAP Brn87 Homo sapiens cDNA clone IMAGE:4776988 5'
5594	18690	31661	3.21	0.0E+00	BF526931.1	EST_HUMAN	602042322F1 NCI CGAP Brn87 Homo sapiens cDNA clone IMAGE:4776988 5'
5598	18695	31665	2.24	0.0E+00	BF313135.1	EST_HUMAN	601897659F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128815 5'
5610	18708	31883	3.88	0.0E+00	11434392	NT	Homo sapiens calcium channel, voltage-dependent, alpha 1G subunit (CACNA1G), mRNA
5626	18722	31881	0.57	0.0E+00	A1928181.1	EST_HUMAN	w68502.x1 NCI CGAP Kid11 Homo sapiens cDNA clone IMAGE:2463051 3' similar to TR:076054
5626	18722	31882	0.57	0.0E+00	A1928181.1	EST_HUMAN	w68502.x1 NCI CGAP Kid11 Homo sapiens cDNA clone IMAGE:2463051 3' similar to TR:076054
5644	18740	31905	1.24	0.0E+00	BE26077.1	EST_HUMAN	075054 KIAA0466 PROTEIN
5653	18740	31905	7.42	0.0E+00	AV1887316.1	EST_HUMAN	601150252F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502909 5'
5658	18763	31932	2.41	0.0E+00	BE292869.1	EST_HUMAN	MRC-SN037-030400-001407 SN037 Homo sapiens cDNA
5668	18763	31933	2.41	0.0E+00	BE292869.1	EST_HUMAN	601105251F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:2987903 5'
5688	18784	31955	1.79	0.0E+00	11420819	NT	601105251F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:2987903 5'
5689	18784	31955	1.79	0.0E+00	11420819	NT	Homo sapiens diacylglycerol receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
5697	18792	31964	4.3	0.0E+00	AF064254.1	NT	Homo sapiens very long-chain acyl-CoA synthetase homolog 1 mRNA, complete cds
5697	18792	31965	4.3	0.0E+00	AF064254.1	NT	Homo sapiens very long-chain acyl-CoA synthetase homolog 1 mRNA, complete cds
5704	18799	31975	2.98	0.0E+00	AJ224639.1	NT	Homo sapiens Surf-5 and Surf-6 genes
5704	18799	31976	2.98	0.0E+00	AJ224639.1	NT	Homo sapiens Surf-5 and Surf-6 genes
5735	18829	32007	0.7	0.0E+00	A198515.1	EST_HUMAN	q99410.x1 Soares, placenta, 820b2esika, 2NbpHP89w Homo sapiens cDNA clone IMAGE:1767730 3'
5739	18833	32013	7.46	0.0E+00	M85719.1	EST_HUMAN	similar to SW:CADC_HUMAN P65289 BRAIN-CADHERIN PRECURSOR ;
5746	18840	32022	5.85	0.0E+00	AW405472.1	EST_HUMAN	EST02238 Fetal brain, Stratagene (calf958206) Homo sapiens cDNA clone HFBGM48
5759	18852	32032	3.20	0.0E+00	Z26268.1	NT	UI-HF-BL0-actb-d02-0-UI.1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3061658 5'
5771	18863	32042	1.87	0.0E+00	AW361877.1	EST_HUMAN	H sapiens isoform 1 gene for L-type calcium channel, exon 14 and 15
5771	18863	32043	1.87	0.0E+00	AW361877.1	EST_HUMAN	PM3-CT0263-091299-007-h05 CT0263 Homo sapiens cDNA
5771	18863	32044	1.87	0.0E+00	AW361877.1	EST_HUMAN	PM3-CT0263-091299-007-h05 CT0263 Homo sapiens cDNA
5774	18866	32047	0.64	0.0E+00	AB035266.1	NT	PM3-CT0263-091299-007-h05 CT0263 Homo sapiens cDNA
5774	18866	32048	0.64	0.0E+00	AB035266.1	NT	Homo sapiens mRNA for neuron II, complete cds

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5776	18908	32051	2.24	0.0E+00	U38261.1	NT	Human beta-prime-2-adipin (BAM22) gene, exon 13
5811	18901	32084	1.13	0.0E+00	AB006861.1	NT	Homo sapiens mRNA for KIAA1841 protein, partial cds
5833	18923	32107	0.53	0.0E+00	AI114826.1	EST_HUMAN	HAY1435 Human fetal liver cDNA library Homo sapiens cDNA
5873	18962	32151	2.4	0.0E+00	AA195805.1	EST_HUMAN	z69571.1.1 Striatum muscle 937208 Homo sapiens cDNA clone IMAGE:927833 5' similar to gb:X03740
5874	18963	32152	1.22	0.0E+00	AJ006345.1	NT	MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN); Homo sapiens KVL011 gene
5874	18963	32153	1.22	0.0E+00	AJ006345.1	NT	Homo sapiens KVL011 gene
5883	18972	32165	1.32	0.0E+00	AI207616.1	EST_HUMAN	HAY2681 Human fetal liver cDNA library Homo sapiens cDNA
5905	18991	32182	5.12	0.0E+00	11416801	NT	Homo sapiens protocadherin beta 2 (PCDH22), mRNA
5910	18996	32185	1.25	0.0E+00	BE1791173.1	EST_HUMAN	601584032F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:388857 5'
5920	19008	32188	1.09	0.0E+00	9888943	NT	Homo sapiens amiloride-sensitive cation channel 1, neuronal (degenerin) (ACCN1), mRNA
5921	19007	32199	7.89	0.0E+00	BE500032.1	EST_HUMAN	601345141F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3677843 5'
5922	19008	32200	1.33	0.0E+00	10048478	NT	Mus musculus acetylcholin (Acs2), mRNA
5923	19009	32201	3.06	0.0E+00	U86961.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exon 13B and isoform beta-1B, complete cds
5923	19009	32202	3.06	0.0E+00	U86961.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exon 13B and isoform beta-1B, complete cds
5942	19028	32222	1.81	0.0E+00	BF358635.1	EST_HUMAN	602038272F1 NCI_CGAP_Bn04 Homo sapiens cDNA clone IMAGE:4184321 5'
5948	19032	32226	0.87	0.0E+00	AF142821.1	NT	Homo sapiens calcium channel gamma 5 subunit (CACNG5) gene, exon 4 and complete cds
5947	19033	32226	2.82	0.0E+00	BE273983.1	EST_HUMAN	601104492F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3347483 5'
5959	19044	32243	1.14	0.0E+00	BE503066.1	EST_HUMAN	h83811.1.1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3214581 3' similar to TR:G62084 Q62084
5963	19048	32249	1.79	0.0E+00	BF566905.1	EST_HUMAN	PHOSPHOLIPASE C NEIGHBORING ;
5968	19053	32283	1.11	0.0E+00	AA454942.1	EST_HUMAN	60218582F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310076 5'
6004	19087	32287	2.27	0.0E+00	AF217289.1	NT	z38806.81 Soares NIHMPu_S1 Homo sapiens cDNA clone IMAGE:811883 3'
6006	19089	32289	2.43	0.0E+00	BE526144.1	EST_HUMAN	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
6011	19094	32294	0.81	0.0E+00	BE598636.1	EST_HUMAN	RCS-E10027-210500-022-G10 E10027 Homo sapiens cDNA
6017	19100	32302	0.53	0.0E+00	AJ269800.1	NT	601845267F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3930453 5'
6030	19113	32315	0.61	0.0E+00	BE673968.1	EST_HUMAN	Homo sapiens KIAA0851 gene (partial), X13 gene and LZTF1.1 gene
6030	19113	32316	0.61	0.0E+00	BE673968.1	EST_HUMAN	747261.1.1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
6035	19118	32322	0.8	0.0E+00	AW278790.1	EST_HUMAN	P51843 ORPHAN NUCLEAR RECEPTOR DAX-1.11 ;
							P51843 ORPHAN NUCLEAR RECEPTOR DAX-1.11 ;
							z65603.1 NCI_CGAP_Ov38 Homo sapiens cDNA clone IMAGE:2745245 3' similar to TR:P78335 P78335
							GUANYLATE KINASE ASSOCIATED PROTEIN. ;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORT-SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6047	19128	32336	0.67	0.0E+00	BF031742.1	EST_HUMAN	601568000F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3827775 5'
6047	19128	32337	0.67	0.0E+00	BF031742.1	EST_HUMAN	601568000F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3827775 5'
6059	19140	32352	1.27	0.0E+00	AW470846.1	EST_HUMAN	h334d06.x1 NC1 CGAP_K4172 Homo sapiens cDNA clone IMAGE:2875596 3' similar to TRQB21N3
6072	19153	32364	0.95	0.0E+00	BF155570.1	EST_HUMAN	Q971N3 MYOSIN-RHO-GAP PROTEIN, MYR 7.1
6072	19153	32366	0.95	0.0E+00	BF155570.1	EST_HUMAN	Q971N3 MYOSIN-RHO-GAP PROTEIN, MYR 7.1
6080	19160	32371	1.38	0.0E+00	W331099.1	EST_HUMAN	Q971N3 MYOSIN-RHO-GAP PROTEIN, MYR 7.1
6080	19160	32372	1.38	0.0E+00	W331099.1	EST_HUMAN	Q971N3 MYOSIN-RHO-GAP PROTEIN, MYR 7.1
6081	19161		2.28	0.0E+00	AF012518.1	NT	z008h06.11 Scores: parathyroid tumor, NhrHPA Homo sapiens cDNA clone IMAGE:321755 5'
6084	19164	32378	2.82	0.0E+00	BE280197.1	EST_HUMAN	z008h06.11 Scores: parathyroid tumor, NhrHPA Homo sapiens cDNA clone IMAGE:321755 5'
6091	19170	32385	2.31	0.0E+00	BE889610.1	EST_HUMAN	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 14
6093	19172	32388	0.53	0.0E+00	BE388673.1	EST_HUMAN	601158516F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3605323 5'
6109	19188	32408	0.63	0.0E+00	AW752848.1	EST_HUMAN	601158516F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3605323 5'
6112	19190	32410	1.46	0.0E+00	11433071	NT	601158516F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3605323 5'
6112	19190	32411	1.46	0.0E+00	11433071	NT	601158516F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3605323 5'
6113	19191	32412	1.12	0.0E+00	BE901608.1	EST_HUMAN	601158516F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3605323 5'
6113	19191	32413	1.12	0.0E+00	BE901608.1	EST_HUMAN	601158516F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3605323 5'
6113	19191	32414	1.12	0.0E+00	BE901608.1	EST_HUMAN	601158516F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3605323 5'
6129	29654	32431	9.98	0.0E+00	9789986	NT	Homo sapiens potassium voltage-gated channel, Shal-related subfamily, member 2 (KCND2), mRNA
6132	19208	32434	1.43	0.0E+00	AA193506.1	EST_HUMAN	z404h01.11 Scores: NhrHPu_S1 Homo sapiens cDNA clone IMAGE:865905 5' similar to SW-YY05, HUMAN P42694 HYPOTHETICAL MYELOID CELL LINE PROTEIN 5.1
6132	19209	32435	1.43	0.0E+00	AA193506.1	EST_HUMAN	z404h01.11 Scores: NhrHPu_S1 Homo sapiens cDNA clone IMAGE:865905 5' similar to SW-YY05, HUMAN P42694 HYPOTHETICAL MYELOID CELL LINE PROTEIN 5.1
6155	19230	32460	11.54	0.0E+00	U34625.1	NT	Human T cell surface glycoprotein CD-8 mRNA, complete cds
6157	19230	32461	11.54	0.0E+00	U34625.1	NT	Human T cell surface glycoprotein CD-8 mRNA, complete cds
6157	19232	32463	0.54	0.0E+00	AW853983.1	EST_HUMAN	RC3-C10254-110300-027-508 C10254 Homo sapiens cDNA
6157	19232	32464	0.54	0.0E+00	AW853983.1	EST_HUMAN	RC3-C10254-110300-027-508 C10254 Homo sapiens cDNA
6197	19271	32506	1.14	0.0E+00	BE258330.1	EST_HUMAN	601148233F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3355566 5'
6207	19281	32514	1.24	0.0E+00	BE165651.1	EST_HUMAN	Q9V0-HT0368-092200-039-409 HT0368 Homo sapiens cDNA
6217	19291	32524	0.53	0.0E+00	U38107.1	NT	Human neutrophilic granulocyte type 1 (NF-1) mRNA, 3' end of cds
6254	19327	32558	1.71	0.0E+00	BE379007.1	EST_HUMAN	Human T cell surface glycoprotein CD-8 mRNA, complete cds
6260	19333	32564	1.19	0.0E+00	AU137772.1	EST_HUMAN	AU137772 PLACE1 Homo sapiens cDNA clone IMAGE:3608490 5'
6282	19354	32590	3.66	0.0E+00	U45982.1	NT	Human G protein-coupled receptor GPR-9-6 gene, complete cds

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6311	19382	32622	4.53	0.0E+00	AA204740.1	EST_HUMAN	zsf1d03.1 Stratagene hNT neuron (#637233) Homo sapiens cDNA clone IMAGE:649005 5' similar to TR:Q854195 Q854195 LEUKOCYTE SURFACE PROTEIN. ;
6312	19383	32623	4.05	0.0E+00	11545913	NT	Homo sapiens Xylosyltransferase II (XT2), mRNA
6313	19383	32624	4.05	0.0E+00	11545913	NT	Homo sapiens Xylosyltransferase II (XT2), mRNA
6331	19401	32642	0.56	0.0E+00	U07228.1	NT	Human beta2-microglobulin mRNA, complete cds
8349	19418	32659	8.33	0.0E+00	11426367	NT	Homo sapiens carcinoembryonic antigen-related cell adhesion molecule 8 (CEACAM8), mRNA
8353	19422	32664	3.66	0.0E+00	BE257173.1	EST_HUMAN	Homo sapiens cDNA clone IMAGE:3350622 5'
						EST_HUMAN	H91110.x1 NCI CGAP_P28 Homo sapiens cDNA clone IMAGE:2248639 3' similar to TR:Q14839 Q14839
6369	19437			0.97	0.0E+00	AI658048.1	Human anion exchanger (AE1) gene, exons 1-20
6373	19441	32683	1.29	0.0E+00	L35950.1	NT	Human anion exchanger (AE1) gene, exons 1-20
6382	19450	32691	1.29	0.0E+00	BE797385.1	EST_HUMAN	601587971F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3942329 5'
6382	19450	32692	1.29	0.0E+00	BE797385.1	EST_HUMAN	601587971F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3942329 5'
6393	19461	32707	0.65	0.0E+00	AI198025.1	EST_HUMAN	q16011.x1 NCI CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1859901 3' similar to TR:Q12838 Q12838
						EST_HUMAN	TIILC ALPHA SUBUNIT ;
6393	19461	32708	0.65	0.0E+00	AI198025.1	EST_HUMAN	q16011.x1 NCI CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1859901 3' similar to TR:Q12838 Q12838
6396	19464	32710	1	0.0E+00	BF357123.1	EST_HUMAN	TIILC ALPHA SUBUNIT ;
6404	19472	32720	1.77	0.0E+00	11435630	NT	MRO-HT0923-220800-102-505 HT0923 Homo sapiens cDNA
6414	19482	32729	0.79	0.0E+00	D55649.1	NT	Homo sapiens peptide transporter 3 (LOC51296), mRNA
6432	19488	32751	1	0.0E+00	AW1778142.1	EST_HUMAN	Homo sapiens alpha mannosidase II (azyme, complete cds
						EST_HUMAN	IL3-HT0923-010989-014-A04 HT0923 Homo sapiens cDNA
6453	19518	32768	0.74	0.0E+00	BE674544.1	EST_HUMAN	Q14681 HYPOTHETICAL PROTEIN KIAA0176 ;
6468	19523	32774	0.89	0.0E+00	7662039	NT	Homo sapiens KIAA0285 gene product (KIAA0285), mRNA
6472	19537	32774	8.48	0.0E+00	AV65020.1	EST_HUMAN	AV65020 GLC Homo sapiens cDNA clone GLCCAD09 3'
6481	19546	32795	3.68	0.0E+00	AW575988.1	EST_HUMAN	UHFH-BLO-acc-g-12-0-U1st NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3058751 3'
6484	19549	32798	5.02	0.0E+00	H01253.1	EST_HUMAN	y27f053.r1 Soares placenta NH2HP Homo sapiens cDNA clone IMAGE:149933 5'
6493	19558	32809	1.16	0.0E+00	11426263	NT	Homo sapiens amiloride-sensitive cation channel 1, neuronal (degenerin) (ACCN1), mRNA
6498	19562	32814	8.09	0.0E+00	X15377.1	NT	Human gene for the light and heavy chains of myeloperoxidase
6500	19564	32816	0.72	0.0E+00	AA456375.1	EST_HUMAN	h14a407.1 Soares NH2HPu S1 Homo sapiens cDNA clone IMAGE:813262 5'
6501	19566	32817	1.23	0.0E+00	AI612841.1	EST_HUMAN	1257408.x1 NCI CGAP_Ov65 Homo sapiens cDNA clone IMAGE:2282887 3' similar to SW:NTCS_HUMAN
6507	19571	32823	3.93	0.0E+00	BE755989.1	EST_HUMAN	P93786 SODIUM- AND CHLORIDE-DEPENDENT CREATINE TRANSPORTER 2 ;
6507	19571	32824	3.93	0.0E+00	BE755989.1	EST_HUMAN	6013053368F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639616 5'
6511	19575	32830	0.78	0.0E+00	AW1745596.1	EST_HUMAN	6013053368F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639616 5'
						EST_HUMAN	MRO-BT0264-221108-002-111 BT0264 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6511	19575	32831	0.78	0.0E+00	AW148506.1	EST_HUMAN	MRO-BT0264-221199-002-411 BT0264 Homo sapiens cDNA
6512	19576		0.67	0.0E+00	U77029.1	NT	Homo sapiens Acheate-Scute homologue 2 (ASCL2) gene, complete cds
6514	19578	32833	28.27	0.0E+00	AW119245.1	EST_HUMAN	AW119245 HEMBA1 Homo sapiens cDNA clone IMAGE1005360 5'
6514	19578	32834	28.27	0.0E+00	AW119245.1	EST_HUMAN	AW119245 HEMBA1 Homo sapiens cDNA clone IMAGE1005360 5'
6519	19582	32840	0.86	0.0E+00	BE780453.1	EST_HUMAN	601468712F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE3871869 5'
6520	19583	32841	1.02	0.0E+00	X92217.1	NT	H1.sapiens germ-line immunoglobulin heavy chain, variable region, (13-2)
6537	19596	32862	1.64	0.0E+00	AF098483.1	EST_HUMAN	w25c007.x1 NC1 CGAP GC08 Homo sapiens cDNA clone IMAGE2498220 3'
6551	19612	32873	1.76	0.0E+00	BE293153.1	EST_HUMAN	601105344F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE2987963 5'
6551	19612	32874	1.76	0.0E+00	BE293153.1	EST_HUMAN	601105344F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE2987963 5'
6584	19644	32912	0.71	0.0E+00	BE697657.1	EST_HUMAN	601443175F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE3847291 5'
6626	19584	32962	1.2	0.0E+00	AW406348.1	EST_HUMAN	UIHF-BL0-acc-R-02-0-UI.F1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE3056931 5'
6626	19684	32963	1.2	0.0E+00	AW406348.1	EST_HUMAN	UIHF-BL0-acc-R-02-0-UI.F1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE3056931 5'
6660	19717	32894	0.89	0.0E+00	AV718444.1	EST_HUMAN	AV718444 GLC Homo sapiens cDNA clone GLCEHC06 5'
6669	19726	33001	1.27	0.0E+00	BE596340.1	EST_HUMAN	6011681150F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE3951301 5'
6669	19726	33002	1.27	0.0E+00	BE596340.1	EST_HUMAN	6011681150F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE3951301 5'
6672	19726	33005	2.18	0.0E+00	AF190860.1	NT	Homo sapiens low voltage-activated T-type calcium channel alpha 1G splice variant Cav1.1a (CACNA1G) mRNA, complete cds
6675	19732	33008	0.64	0.0E+00	L48546.1	NT	Homo sapiens tuberin (TSC2) gene, exons 38, 39, 40 and 41
6677	19734	33009	1.11	0.0E+00	11420658	NT	Homo sapiens transformation/transcription domain-associated protein (TTRAP), mRNA
6684	19741	33016	3.24	0.0E+00	AW165840.1	EST_HUMAN	au69808.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE2784159 5' similar to TR.O15390 O15390 GT24. [3] TR.O43940 TR.O43206;
6684	19741	33017	3.24	0.0E+00	AW165840.1	EST_HUMAN	au69808.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE2784159 5' similar to TR.O15390 O15390 GT24. [3] TR.O43940 TR.O43206;
6688	19745	33020	0.85	0.0E+00	W37163.1	EST_HUMAN	SW.ZN45. HUMAN Q02386 ZINC FINGER PROTEIN 45;
6688	19745	33021	0.85	0.0E+00	W37163.1	EST_HUMAN	SW.ZN45. HUMAN Q02386 ZINC FINGER PROTEIN 45;
6706	19762	33041	1.19	0.0E+00	BE794953.1	EST_HUMAN	601566371F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE3943904 5'
6713	19769	33048	4.81	0.0E+00	BE79967.3	EST_HUMAN	601567561F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE3941847 5'
6714	19770	33049	3.07	0.0E+00	BE767955.1	EST_HUMAN	QV1-GN0065 140800-318-102 GN0065 Homo sapiens cDNA
6714	19770	33050	3.07	0.0E+00	BE767955.1	EST_HUMAN	QV1-GN0065 140800-318-102 GN0065 Homo sapiens cDNA
6718	19774	33053	7.15	0.0E+00	BE889813.1	EST_HUMAN	601512058F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE3913311 5'
6718	19774	33054	7.15	0.0E+00	BE889813.1	EST_HUMAN	601512058F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE3913311 5'
6727	19783	33062	5.42	0.0E+00	L24493.1	NT	Human antigen CD27 gene, exons 1-2

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORT-SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6732	19758	33066	2	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
6732	19758	33067	2	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
6738	19794	33074	3.67	0.0E+00	6005983	NT	Homo sapiens zona pellucida glycoprotein 3A (spem receptin) (ZP3A), mRNA
6741	19798	33078	3.87	0.0E+00	AI638412.1	EST_HUMAN	IGF1F1.X1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE2242413 3' similar to SW:WNT3_MOUSE
6743	19798	33078	1.41	0.0E+00	U32832.1	NT	P17593 WNT-3 PROTO-ONCOGENE PROTEIN PRECURSOR.
6755	19809	33090	0.79	0.0E+00	AW505430.1	EST_HUMAN	Homo sapiens zinc finger homeodomain protein (ATF1-A) mRNA, complete cds
6757	19811	33091	3.98	0.0E+00	AA434584.1	EST_HUMAN	UHF-BNO-ama-c01-0-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3081217 5'
6771	19826	33113	1.13	0.0E+00	BF217200.1	EST_HUMAN	z652d03.r1 Soares, total, fetus, N62HF8_9v Homo sapiens cDNA clone IMAGE:773688 5'
6775	19830	33113	1.68	0.0E+00	BE925875.1	EST_HUMAN	601885317F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4103683 5'
6803	19862	33149	0.75	0.0E+00	11426738	NT	QV3-BND047:300800-278-c06 BND047 Homo sapiens cDNA Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), mRNA
6808	19862	33150	0.75	0.0E+00	11426758	NT	Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), mRNA
6828	19880	33171	2.04	0.0E+00	AU12928.1	EST_HUMAN	AU12928 NT2RM4 Homo sapiens cDNA clone NT2RM4002430 5'
6828	19882	33173	0.64	0.0E+00	BE701434.1	EST_HUMAN	PM2-NN0174-260700-001-H10 NN0174 Homo sapiens cDNA
6828	19882	33174	0.64	0.0E+00	BE701434.1	EST_HUMAN	PM2-NN0174-260700-001-H10 NN0174 Homo sapiens cDNA
6851	19904	33169	1.46	0.0E+00	BE142383.1	EST_HUMAN	CM0-H10143-270989-062-c08 HT0143 Homo sapiens cDNA
6873	19926	33222	1.01	0.0E+00	BE038012.1	EST_HUMAN	RC0-BN0121-280300-032-c04 BN0121 Homo sapiens cDNA
6873	19928	33223	1.01	0.0E+00	BE038012.1	EST_HUMAN	RC0-BN0121-280300-032-c04 BN0121 Homo sapiens cDNA
6901	19953	33250	7.7	0.0E+00	BE169131.1	EST_HUMAN	PM3-HT0520-230200-002-c08 HT0520 Homo sapiens cDNA
6903	19953	33252	3.49	0.0E+00	BF085687.1	EST_HUMAN	IL3-GN0032-180900-145-d07 GN0032 Homo sapiens cDNA
6943	20167	33490	3.27	0.0E+00	AA150755.1	EST_HUMAN	z288d03.r1 Stradiene HeLa cell c3 937216 Homo sapiens cDNA clone IMAGE:927282 5'
6954	20179	33504	1.04	0.0E+00	U39573.1	NT	Human salivary peroxidase mRNA, complete cds
6955	20183	33508	0.7	0.0E+00	BE571987.1	EST_HUMAN	7e49007.X1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE:322037 3' similar to TR:Q97285 Q97285 TEKTIN.1
6970	20193	33520	6.96	0.0E+00	A1940621.1	EST_HUMAN	IL3-ST0024-230799-001-B01 ST0024 Homo sapiens cDNA
6970	20193	33521	6.96	0.0E+00	A1940621.1	EST_HUMAN	IL3-ST0024-230799-001-B01 ST0024 Homo sapiens cDNA
6984	20207	33557	1.98	0.0E+00	11435628	NT	Homo sapiens CD6 antigen (CD6), mRNA
6998	20124	33439	1.01	0.0E+00	AL042443.1	EST_HUMAN	DKFZp434D2021.J1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434D2021 5'
6999	20125	33440	47.69	0.0E+00	X56163.1	NT	H-sapiens immunoglobulin heavy chain gene, variable region ao10d01.x1 Soares, NSF_F3, SW_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1565761 3' similar to
7002	20128	33443	0.84	0.0E+00	A1683270.1	EST_HUMAN	TRQ:28623 Q28623 TEKTIN C1.1
7007	20133	33448	0.92	0.0E+00	BE734087.1	EST_HUMAN	601507370F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842080 5'

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7030	18302	31249	1.17	0.0E+00	BE566381.1	EST_HUMAN	601339977F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3882287 5'
7040	18372	31289	12.91	0.0E+00	BE867869.1	EST_HUMAN	601443660F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847697 5'
7040	18372	31289	12.91	0.0E+00	BE867869.1	EST_HUMAN	601443660F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847697 5'
7048	20070	33376	1.94	0.0E+00	BE550162.1	EST_HUMAN	744903.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3231581 3' similar to SW:GG95_HUMAN
7048	20070	33377	1.94	0.0E+00	BE550162.1	EST_HUMAN	744903.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3231581 3' similar to SW:GG95_HUMAN
7074	20096	33406	2.29	0.0E+00	BF098376.1	EST_HUMAN	Q08379 GOLGN-96 ;
7081	20102	33413	1.41	0.0E+00	AA195106.1	EST_HUMAN	Q08379 GOLGN-96 ;
7088	20022		11.47	0.0E+00	11034810	NT	CM1-HT10877-060900-397 411 HT10877 Homo sapiens cDNA
7090	20024	33328	0.91	0.0E+00	11431474	NT	CM1-HT10877-060900-397 411 HT10877 Homo sapiens cDNA
7092	20026	33329	0.76	0.0E+00	BE313075.1	EST_HUMAN	601150662F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503391 5'
7092	20026	33330	0.76	0.0E+00	BE313075.1	EST_HUMAN	601150662F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503391 5'
7108	20040	33342	3.08	0.0E+00	BF566903.1	EST_HUMAN	60218582F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310075 5'
7114	20048	33350	0.61	0.0E+00	4557364	NT	Homo sapiens Bloom syndrome (BLU) mRNA
7122	20056		2.02	0.0E+00	J03068.1	NT	Human MYCL2 gene, complete cds
7132	20108	33419	3.33	0.0E+00	AF217289.1	NT	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
7132	20109	33420	3.33	0.0E+00	AF217289.1	NT	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
7133	20109	33421	1.77	0.0E+00	M38113.1	NT	Human neurofibromatosis type 1 gene, exon x8
7146	18378	31266	3.02	0.0E+00	11420775	NT	Homo sapiens melanoma antigen, family B, 2 (MAGEB2), mRNA
7147	18379	31267	0.57	0.0E+00	A1419699.1	EST_HUMAN	tg35c06.x1 Scores_NFL_T_GSC_S1 Homo sapiens cDNA clone IMAGE:2112490 3' similar to SW:OXYB_HUMAN_P22059 OXYSTEROL-BINDING PROTEIN ;
7147	18379	31268	0.57	0.0E+00	A1419699.1	EST_HUMAN	tg35c06.x1 Scores_NFL_T_GSC_S1 Homo sapiens cDNA clone IMAGE:2112490 3' similar to SW:OXYB_HUMAN_P22059 OXYSTEROL-BINDING PROTEIN ;
7162	18384	31272	0.66	0.0E+00	BE266708.1	EST_HUMAN	601115515F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3556330 5'
7173	18404	31262	1.21	0.0E+00	AU118478.1	EST_HUMAN	AU118478 HEMBAT Homo sapiens cDNA clone HEMBA1003879 5' ...
7176	18407	31266	5.02	0.0E+00	BE262941.1	EST_HUMAN	601148954F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3501829 5'
7177	18408	31207	2.25	0.0E+00	Z37976.1	NT	H.sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
7177	18408	31208	2.25	0.0E+00	Z37976.1	NT	H.sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
7178	18409	31209	3.32	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
7178	18409	31210	3.32	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
7185	18416	31217	1.33	0.0E+00	AF310105.1	NT	Homo sapiens NALP1 mRNA, complete cds
7187	18418	31219	0.69	0.0E+00	BF130916.1	EST_HUMAN	601819722F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4051709 5'

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7192	20216	33546	0.57	0.0E+00	BE762770.1	EST_HUMAN	QV3-NT0022-140600-223-01 NT0022 Homo sapiens cDNA
7198	20222	33553	2.39	0.0E+00	BF569905.1	EST_HUMAN	60218582F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310078 5'
7200	20224	33555	0.68	0.0E+00	AJ404488.1	NT	Homo sapiens mRNA for dyx19 heavy chain (DNAH9 gene)
7200	20224	33556	0.68	0.0E+00	AJ404488.1	NT	Homo sapiens mRNA for dyx19 heavy chain (DNAH9 gene)
7204	20228	33561	4.32	0.0E+00	LO1978.1	NT	Human type IV sodium channel alpha polypeptide (SCN4A) gene, exon 19
7206	20232	33566	1.49	0.0E+00	AW502662.1	EST_HUMAN	UHF-FR0p-aka-D-10-Q-U1r1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3076290 5'
7209	20232	33568	1.49	0.0E+00	AW502662.1	EST_HUMAN	UHF-FR0p-aka-D-10-Q-U1r1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3076290 5'
7218	20240	33574	0.93	0.0E+00	AL039581.1	EST_HUMAN	DKFZp434D2211.1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434D2211 5'
7218	20240	33575	0.93	0.0E+00	AL039581.1	EST_HUMAN	DKFZp434D2211.1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434D2211 5'
7227	20249	33583	5.15	0.0E+00	BF300596.1	EST_HUMAN	60188882F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
7233	20254	33588	2.16	0.0E+00	U41302.1	NT	Human chromosome 16 creatine transporter (SLC6A8) and (CDM) paralogous genes, complete cds
7275	20010	33312	1.21	0.0E+00	AL049784.1	NT	Novel human gene mapping to chromosome 13
7315	20286	33627	0.69	0.0E+00	AB026893.1	NT	Homo sapiens mRNA for vascular catharin-2, complete cds
7315	20286	33628	0.69	0.0E+00	AB026893.1	NT	Homo sapiens mRNA for vascular catharin-2, complete cds
7320	20291	33634	0.68	0.0E+00	AU137738.1	EST_HUMAN	AU137738 PLACE1 Homo sapiens cDNA clone PLACE1007120 5'
7320	20291	33635	0.68	0.0E+00	AU137738.1	EST_HUMAN	AU137738 PLACE1 Homo sapiens cDNA clone PLACE1007120 5'
7329	20297	33641	1.23	0.0E+00	AW554908.1	EST_HUMAN	EST368876 IMAGE Resequences, MAGC Homo sapiens cDNA
7327	20298	33642	1.14	0.0E+00	BE254103.1	EST_HUMAN	60111395F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3354568 5'
7340	20311	33654	1.23	0.0E+00	LO1973.1	NT	Human type VI sodium channel alpha polypeptide (SCN4A) gene, exon 14
7348	20318	33664	0.69	0.0E+00	AB007933.1	NT	Homo sapiens mRNA for KIAA0466 protein, partial cds
7348	20318	33665	0.68	0.0E+00	AB007933.1	NT	Homo sapiens mRNA for KIAA0466 protein, partial cds
7354	20324	33672	1.39	0.0E+00	AU133213.1	EST_HUMAN	AU133213 NT2RP4 Homo sapiens cDNA clone NT2RP4001659 5'
7370	20340	33682	1	0.0E+00	11428081	NT	Homo sapiens membrane protein CH1 (CH1), mRNA
7375	20346	33687	2.24	0.0E+00	AU143706.1	EST_HUMAN	AU143706 Y78A41 Homo sapiens cDNA clone Y78A41002385 5'
7376	20346	33687	0.96	0.0E+00	4759839	NT	Homo sapiens nefrin 1 (NTN1), mRNA
7385	20355	33706	1.34	0.0E+00	BE891285.1	EST_HUMAN	60143181F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917164 5'
7385	20355	33707	1.34	0.0E+00	BE891285.1	EST_HUMAN	60143181F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917164 5'
7407	18430	31181	2.28	0.0E+00	AF137266.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
7407	18430	31182	2.28	0.0E+00	AF137266.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
7419	20386	33736	0.7	0.0E+00	BE747231.1	EST_HUMAN	60158094F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3928722 5'
7419	20386	33737	0.7	0.0E+00	BE747231.1	EST_HUMAN	60158094F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3928722 5'
7432	20396	33751	4.41	0.0E+00	11436988	NT	Homo sapiens vitamin D (1,25-dihydroxyvitamin D3) receptor (VDR), mRNA
7432	20396	33752	4.41	0.0E+00	11436988	NT	Homo sapiens vitamin D (1,25-dihydroxyvitamin D3) receptor (VDR), mRNA

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7447	20413	33706	0.65	0.0E+00	AF227744.1	NT	Homo sapiens voltage-dependent calcium channel alpha 1G subunit isoform aa (CACNA1G) mRNA, complete cds
7469	20435	33791	36.24	0.0E+00	AI128344.1	EST_HUMAN	q87a07.x1 Soares_placenta_806weeks_2NBHP869W Homo sapiens cDNA clone IMAGE:1714644 3' similar to SW:ARSD_HUMAN P51689 ARYL SULFATASE D PRECURSOR ; contains element HGR repetitive element ;
7469	20435	33791	36.24	0.0E+00	AI128344.1	EST_HUMAN	q87a07.x1 Soares_placenta_806weeks_2NBHP869W Homo sapiens cDNA clone IMAGE:1714644 3' similar to SW:ARSD_HUMAN P51689 ARYL SULFATASE D PRECURSOR ; contains element HGR repetitive element ;
7472	20438	33792	0.82	0.0E+00	AF227135.1	NT	Homo sapiens candidate taste receptor, T2R9 gene, complete cds
7472	20438	33796	0.82	0.0E+00	AF227135.1	NT	Homo sapiens candidate taste receptor, T2R9 gene, complete cds
7475	20441	33799	5.42	0.0E+00	11426392	NT	Homo sapiens myosin, heavy polypeptide 8, skeletal muscle, perinatal (MYH8), mRNA
7475	20441	33800	5.42	0.0E+00	11426392	NT	Homo sapiens myosin, heavy polypeptide 8, skeletal muscle, perinatal (MYH8), mRNA
7478	20444		13.74	0.0E+00	BF337375.1	EST_HUMAN	602035039F1 NC1_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4182839 5'
7480	20446	33802	2.75	0.0E+00	AA128453.1	EST_HUMAN	zn6709.1 Striatogene muscle 937209 Homo sapiens cDNA clone IMAGE:562601 5' similar to TR-G806562 G806562 NEBULIN ;
7485	20450	33808	0.75	0.0E+00	AL079497.1	EST_HUMAN	DKFZ434B0226_r1 434 (synonym: hsc3) Homo sapiens cDNA clone DKFZp434B0226 5'
7485	20450	33809	0.75	0.0E+00	AL079497.1	EST_HUMAN	DKFZ434B0226_r1 434 (synonym: hsc3) Homo sapiens cDNA clone DKFZp434B0226 5'
7496	20461	33821	0.57	0.0E+00	AJ270966.1	NT	Homo sapiens partial mRNA for LTRPCS protein (LTRPCS gene)
7530	20493	33855	1.12	0.0E+00	BE295499.1	EST_HUMAN	601174576F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3529794 5'
7532	20495	33856	0.9	0.0E+00	11427068	NT	Homo sapiens hypothetical protein (FLJ20261), mRNA
7533	20496		1.46	0.0E+00	AU118607.1	EST_HUMAN	AU118607 HEMBA1 Homo sapiens cDNA clone HEMBA1003669 5'
7536	20499	33859	2.02	0.0E+00	AF005213.1	NT	Homo sapiens ankrym 1 (ANK1) mRNA, complete cds
7536	20499	33900	2.02	0.0E+00	AF005213.1	NT	Homo sapiens ankrym 1 (ANK1) mRNA, complete cds
7547	20510	33868	0.85	0.0E+00	AF245505.1	NT	Homo sapiens edican mRNA, complete cds
7555	20518	33873	7.23	0.0E+00	X70172.1	NT	H. sapiens DNA for ZNCP2 pseudogene, exon 4
7557	20520	33875	6.84	0.0E+00	U45448.1	NT	Human P2X1 receptor mRNA, complete cds
7557	20520	33876	6.84	0.0E+00	U45448.1	NT	Human P2X1 receptor mRNA, complete cds
7570	20533	33891	0.81	0.0E+00	AW956503.1	EST_HUMAN	EST368573 MAGE resequences, MAGE Homo sapiens cDNA
7572	20535	33893	2.85	0.0E+00	AW950516.1	EST_HUMAN	EST368573 MAGE resequences, MAGE Homo sapiens cDNA
7599	20560	33920	0.79	0.0E+00	AF001543.1	EST_HUMAN	AF001543 Human cDNA (Chandrasekharappa S.C.) Homo sapiens cDNA clone kappa_200
7599	20560	33921	0.79	0.0E+00	AF001543.1	EST_HUMAN	AF001543 Human cDNA (Chandrasekharappa S.C.) Homo sapiens cDNA clone kappa_200
7599	20560	33922	0.79	0.0E+00	AF001543.1	EST_HUMAN	AF001543 Human cDNA (Chandrasekharappa S.C.) Homo sapiens cDNA clone kappa_200
7623	20583		0.62	0.0E+00	M90354.1	NT	Human BTTF3 protein homologue gene, complete cds
7624	20584	33947	0.72	0.0E+00	BE408263.1	EST_HUMAN	601302879F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3837434 5'

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7695	20596	33598	0.5	0.0E+00	AW402542.1	EST_HUMAN	UHF-BKO-as-g-07-0-UJ1.NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3054924 5'
7696	20613		1.3	0.0E+00	R87430.1	EST_HUMAN	Ym8810.1 Sources adult brain N26-HB555 Homo sapiens cDNA clone IMAGE:186051 5'
7697	20614	33978	2.42	0.0E+00	AW293326.1	EST_HUMAN	x339a05.y1 NCI_CGAP_Lu31 Homo sapiens cDNA clone IMAGE:2578640 5' similar to TR:Q08050 Q08050
7698	20634		1.21	0.0E+00	AW117553.1	EST_HUMAN	HNF3/FH TRANSCRIPTION FACTOR GENESIS:
7699	20636	33598	3.92	0.0E+00	11427135	NT	Homo sapiens glucagon-like peptide 2 receptor (GLP2R), mRNA
7697	20655	34019	1.76	0.0E+00	AA211663.1	EST_HUMAN	AW117553 HEMBA1 Homo sapiens cDNA clone HEMBA1001661 5'
7703	20660	34024	0.66	0.0E+00	BF229235.1	EST_HUMAN	zr16802.1 Stratiene nuclease 937209 Homo sapiens cDNA clone IMAGE:592203 5' similar to gb:X03740
7710	20667	34034	0.62	0.0E+00	AW998499.1	EST_HUMAN	MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN);
7713	20670	34037	0.81	0.0E+00	L32832.1	NT	C13-BN0046-220300-12a-04 BN0048 Homo sapiens cDNA
7740	20694	34058	1.17	0.0E+00	BF306896.1	EST_HUMAN	Homo sapiens zinc finger homeodomain protein (X1BF1-A) mRNA, complete cds
7740	20694	34059	1.17	0.0E+00	BF306896.1	EST_HUMAN	601889823.F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
7750	20703	34071	1.24	0.0E+00	AW118167.1	EST_HUMAN	601889823.F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
7782	20735	34107	0.49	0.0E+00	AW489551.1	EST_HUMAN	UHF-BKO-as-g-10-0-UJ1.NIH_MGC_52 Homo sapiens cDNA clone HEMBA1004314 5'
7809	20788	34132	0.94	0.0E+00	AB002355.1	NT	Human mRNA for KIAA0357 gene, partial cds
7810	20759	34133	4.06	0.0E+00	AI752581.1	EST_HUMAN	cn17405.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn17405 random
7810	20759	34134	4.06	0.0E+00	AI752581.1	EST_HUMAN	cn17405.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn17405 random
7879	20823	34200	0.53	0.0E+00	AA339595.1	EST_HUMAN	zr16807.1 Sources testis, NHT Homo sapiens cDNA clone IMAGE:743125 5'
7879	20823	34201	0.53	0.0E+00	AA339595.1	EST_HUMAN	zr16807.1 Sources testis, NHT Homo sapiens cDNA clone IMAGE:743125 5'
7880	20824	34202	0.53	0.0E+00	AL046347.2	EST_HUMAN	DKFZp434J087_J1 434 (synonym: hba3) Homo sapiens cDNA clone DKFZp434J087 5'
7897	20840	34221	1.22	0.0E+00	AF064205.1	NT	Homo sapiens dynactin 1 (DCTN1) gene, alternatively spliced products, exons 7 through 32 and complete cds
7897	20840	34222	1.22	0.0E+00	AF064205.1	NT	Homo sapiens dynactin 1 (DCTN1) gene, alternatively spliced products, exons 7 through 32 and complete cds
7905	20848	34233	1.06	0.0E+00	U74315.1	EST_HUMAN	HSU74318 Human chromosome 14 Homo sapiens cDNA clone 1-4
7916	20862	34250	0.59	0.0E+00	BE439545.1	EST_HUMAN	HTM1-183F1 HTM1 Homo sapiens cDNA
7920	20883	34251	1.03	0.0E+00	11417342	NT	Homo sapiens serpin domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (serpinobin) 5A (SEMA5A) mRNA
7939	20881	34271	0.5	0.0E+00	BF569905.1	EST_HUMAN	60218852.F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4310076 5'
7950	20891	34282	0.73	0.0E+00	AI825504.1	EST_HUMAN	ws17605.x1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE:2305976 3' similar to TR:O75363 O75363 ABC1.1

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7950	20891	34283	0.73	0.0E+00	AI825504.1	EST_HUMAN	wb17905.x1 NQ1_CQAP_GC68 Homo sapiens cDNA clone IMAGE:2305976 3' similar to TR:075363 075363
7958	20899	34282	3.09	0.0E+00	6912735	NT	ABCA1...
7959	20894	34296	0.98	0.0E+00	N76128.1	EST_HUMAN	Homo sapiens transient receptor potential channel 5 (TRP5), mRNA
7965	20904	34306	5.4	0.0E+00	BF217903.1	EST_HUMAN	z989d05.s1 Soares, fetal_lung_NBL19W Homo sapiens cDNA clone IMAGE:2394466 3'
7971	20910	34300	5.4	0.0E+00	BF217903.1	EST_HUMAN	6011835455F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4103729 5'
7976	20915	34306	0.53	0.0E+00	BF569962.1	EST_HUMAN	602183308F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310266 5'
7981	20920	34311	3.8	0.0E+00	AU125822.1	EST_HUMAN	AU128622 NT2RP2 Homo sapiens cDNA clone NT2RP205913 5'
8006	25693	34338	0.97	0.0E+00	AW069274.1	EST_HUMAN	cr42e09.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC_cr42e09 3'
8006	25693	34338	0.97	0.0E+00	AW069274.1	EST_HUMAN	cr42e09.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC_cr42e09 3'
8010	20948	34341	6.56	0.0E+00	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
8017	20955	34348	1.05	0.0E+00	AV759467.1	EST_HUMAN	AV758467 BM Homo sapiens cDNA clone BMFBG05 5'
8020	20957	34350	5.84	0.0E+00	BE739970.1	EST_HUMAN	601593156F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3947366 5'
8020	20957	34351	5.84	0.0E+00	BE739970.1	EST_HUMAN	601593156F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3947366 5'
8021	20958	34352	0.88	0.0E+00	6912461	NT	Homo sapiens atrophin-1 interacting protein 1; actinVn receptor interacting protein 1 (KIAA0705), mRNA
8021	20959	34353	0.88	0.0E+00	6912461	NT	Homo sapiens atrophin-1 interacting protein 1; actinVn receptor interacting protein 1 (KIAA0705), mRNA
8022	20959	34354	3.3	0.0E+00	AU120424.1	EST_HUMAN	AUT20424 HEMBB1 Homo sapiens cDNA clone HEMBB1000655 5'
8022	20959	34355	3.3	0.0E+00	AU120424.1	EST_HUMAN	AUT20424 HEMBB1 Homo sapiens cDNA clone HEMBB1000655 5'
8048	20985	34381	2.13	0.0E+00	BF550267.1	EST_HUMAN	reb22d04.x1 Soares, NSF_F8_9W_OT_PA_P_51 Homo sapiens cDNA clone IMAGE:3263214 3' similar to contains element TARI repetitive element:
8060	20987	34393	1.52	0.0E+00	BE787610.1	EST_HUMAN	601481713F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3884258 5'
8060	20987	34394	1.52	0.0E+00	BE787610.1	EST_HUMAN	601481713F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3884258 5'
8101	21037	34437	0.54	0.0E+00	AW96307.1	EST_HUMAN	60187373F1 MAG2 resequences, MAGD Homo sapiens cDNA
8123	21060	34458	0.52	0.0E+00	Y16785.1	NT	Homo sapiens psithaA, pseudogene
8129	21066	34456	0.49	0.0E+00	11425128	NT	Homo sapiens similar to ER to nucleus signalling 1 (H_sapiens) (LOC83433), mRNA
8130	21067	34467	0.69	0.0E+00	AU117333.1	EST_HUMAN	AU117333 HEMBA1 Homo sapiens cDNA clone HEMBA1001175 5'
8131	21068	34467	0.52	0.0E+00	BE613863.1	EST_HUMAN	601504094F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3906733 5'
8146	21083	34482	4.38	0.0E+00	AW969044.1	EST_HUMAN	EST330719 MAG2 resequences, MAG1 Homo sapiens cDNA
8147	21084	34483	0.75	0.0E+00	AH133455.1	EST_HUMAN	HA23032 Human fetal liver cDNA library Homo sapiens cDNA
8186	21156	34595	0.64	0.0E+00	AU133187.1	EST_HUMAN	AU133187 NT2RP4 Homo sapiens cDNA clone NT2RP4001507 5'
8221	21200	34520	0.55	0.0E+00	BF217200.1	EST_HUMAN	6011885317F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4103663 5'
8244	21213	34520	0.87	0.0E+00	BE313013.1	EST_HUMAN	601190347F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3600560 5'
8256	21225	34635	1.09	0.0E+00	AA149791.1	EST_HUMAN	z601c06.r1 Stratigene colon (H937204) Homo sapiens cDNA clone IMAGE:568410 5'

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8288	21237	34648	0.88	0.0E+00	BF026628.1	EST_HUMAN	601672310F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3856131 5'
8291	21280	34662	0.52	0.0E+00	AA017021.1	EST_HUMAN	z83308.1 Soares retina N2B4HR Homo sapiens cDNA clone IMAGE:360831 5'
8295	21268	34680	2.26	0.0E+00	BE736046.1	EST_HUMAN	601305650F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639603 5'
8314	21263	34695	2.42	0.0E+00	M34872.1	NT	Human amyloid-beta protein (APP) gene, exon 11
8314	21263	34696	2.42	0.0E+00	M34872.1	NT	Human amyloid-beta protein (APP) gene, exon 11
8344	21313	34727	0.74	0.0E+00	AW674581.1	EST_HUMAN	b53402.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2985123 5' similar to TR:O64652 O64652
8344	21313	34728	0.74	0.0E+00	AW674581.1	EST_HUMAN	b53402.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2985123 5' similar to TR:O64652 O64652
8351	21320	34734	2.47	0.0E+00	AA397551.1	EST_HUMAN	z81504.11 Strabagene echino brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482
8353	21322	34735	0.92	0.0E+00	AW387131.1	EST_HUMAN	G300482 POL-REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT) ;
8356	21325		0.62	0.0E+00	AB020691.1	NT	Homo sapiens mRNA for KIAA0884 protein, partial cds
8357	21326	34737	7.96	0.0E+00	AU142402.1	EST_HUMAN	AU142402 Y78AA1 Homo sapiens cDNA clone Y78AA1000277 5'
8361	21330	34741	1.12	0.0E+00	BE388421.1	EST_HUMAN	60128550F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607237 5'
8361	21330	34742	1.12	0.0E+00	BE388421.1	EST_HUMAN	60128550F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607237 5'
8376	21345	34756	0.48	0.0E+00	7657276	NT	Homo sapiens Miller cell immunoglobulin-like receptor, two domains, short cytoplasmic tail, 1 (KIR2DS1), mRNA
8378	21347	34759	0.92	0.0E+00	W95278.1	EST_HUMAN	z80501.11 Soares fetal heart NH-H19W Homo sapiens cDNA clone IMAGE:358081 5'
8378	21347	34759	0.92	0.0E+00	W95278.1	EST_HUMAN	z80501.11 Soares fetal heart NH-H19W Homo sapiens cDNA clone IMAGE:358081 5'
8380	21349		17.98	0.0E+00	BF673066.1	EST_HUMAN	602153008F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4284128 5'
8384	21353		0.96	0.0E+00	AU134114.1	EST_HUMAN	AU134114 OVARGT Homo sapiens cDNA clone OVARGT001296 5'
8388	21367	34776	1.71	0.0E+00	BF525534.1	EST_HUMAN	6020689332F1 NCI_OGAP_Brr64 Homo sapiens cDNA clone IMAGE:4212727 5'
8398	21367	34777	1.71	0.0E+00	BF525534.1	EST_HUMAN	6020689332F1 NCI_OGAP_Brr64 Homo sapiens cDNA clone IMAGE:4212727 5'
8430	21366	34810	1.65	0.0E+00	AL120124.1	EST_HUMAN	DKFZp761P092.1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761P092 5'
8430	21366	34811	1.65	0.0E+00	AL120124.1	EST_HUMAN	DKFZp761P092.1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761P092 5'
8473	21442		1.24	0.0E+00	BE877693.1	EST_HUMAN	601485254F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3887773 5'
8497	21465	34881	1.91	0.0E+00	AW500549.1	EST_HUMAN	U1HF-BNC-sk47-01-Q-U1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077496 5'
8505	21473	34887	10.07	0.0E+00	AW157233.1	EST_HUMAN	z80308.11 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783769 3 similar to
8523	21491	34906	0.67	0.0E+00	AW072395.1	EST_HUMAN	TR:O60463 O60463 TYPE-2 PHOSPHATIDIC ACID PHOSPHORYLASE. [1] ;
8541	21509	34926	1.06	0.0E+00	11421722	NT	element ORF repetitive element ;
8544	21512	34929	0.83	0.0E+00	W01616.1	EST_HUMAN	Homo sapiens centrosomal protein 2 (CEP2), mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8546	21514	34631		1.26	0.0E+00	EST_HUMAN	601678195F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926998 5'
8546	21514	34632		1.26	0.0E+00	EST_HUMAN	601678195F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926998 5'
8558	21527	34946		1.2	0.0E+00	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
8578	21546	34985		0.44	0.0E+00	NT	Human DNA for ceruloplasmin, exon 5
8599	21567	34983		1.08	0.0E+00	EST_HUMAN	q19b612.x1 NCL CGAP_U2 Homo sapiens cDNA clone IMAGE:1989334 3' similar to TR:Q14673 Q14673 KIAA0164 PROTEIN ;
8610	21578	34984		2.6	0.0E+00	EST_HUMAN	7478a04.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278602 3' similar to TR:O65763 O65793 STAU7EN PROTEIN ;
8612	21580	34986		1.22	0.0E+00	EST_HUMAN	w60b10.x1 NCL CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2429275 3' similar to SW:COGT_HUMAN P50281 MATRIX METALLOPROTEINASE-14 PRECURSOR ;
8625	21593	35012		1.29	0.0E+00	EST_HUMAN	601337780F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3688655 5'
8625	21593	35012		1.29	0.0E+00	EST_HUMAN	601337780F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3688655 5'
8633	21601	35023		1.93	0.0E+00	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
8633	21601	35024		1.93	0.0E+00	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
8635	21603	35026		1.35	0.0E+00	EST_HUMAN	z66802.t1 Soerea_tetui N52Hf8_8w Homo sapiens cDNA clone IMAGE:758619 5' similar to TR:G1304132 G1304132 TPRD ;
8635	21603	35027		1.35	0.0E+00	EST_HUMAN	z66802.t1 Soerea_tetui N52Hf8_8w Homo sapiens cDNA clone IMAGE:758619 5' similar to TR:G1304132 G1304132 TPRD ;
8678	21644			3.69	0.0E+00	EST_HUMAN	z73a03.s1 Soerea_tetui NHT Homo sapiens cDNA clone IMAGE:727858 3' similar to gb:S85655 PROHIBITIN (HUMAN);
8685	21653	35076		0.53	0.0E+00	EST_HUMAN	RC2-FN0684-120600-013-H07 FN0094 Homo sapiens cDNA
8686	21654	35077		1.25	0.0E+00	EST_HUMAN	QV3-DJ70045-221289-048-c07 DJ70045 Homo sapiens cDNA
8686	21654	35078		1.25	0.0E+00	EST_HUMAN	QV3-DJ70045-221289-048-c07 DJ70045 Homo sapiens cDNA
8705	21673	35097		1.26	0.0E+00	EST_HUMAN	601452412F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3856179 5'
8705	21673	35098		1.26	0.0E+00	EST_HUMAN	601452412F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3856179 5'
8720	21688	35115		1.65	0.0E+00	NT	Homo sapiens chromosome 21 segment HS21C009
8720	21688	35116		1.65	0.0E+00	NT	Homo sapiens chromosome 21 segment HS21C009
8730	21698	35123		0.7	0.0E+00	EST_HUMAN	wm33a41.x1 NCL CGAP_U14 Homo sapiens cDNA clone IMAGE:2437724 3' similar to TR:O75457 O75457 CYTOSOLIC PHOSPHOLIPASE A2-GAMMA ;
8737	21705	35128		0.85	0.0E+00	EST_HUMAN	m258610.s1 NCL CGAP_C03 Homo sapiens cDNA clone IMAGE:892289 3' similar to TR:G1136434
8742	21710			0.57	0.0E+00	NT	Homo sapiens KIAA0187 PROTEIN ;
8749	21717	35140		0.99	0.0E+00	EST_HUMAN	604011.x1 Soerea_pregnans uterus_NbIPU Homo sapiens cDNA clone IMAGE:2043117 3'
8752	21720			1.97	0.0E+00	EST_HUMAN	601431238F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3916568 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8778	21745	35168	0.55	0.0E+00	AW245765.1	EST_HUMAN	2822701 Splice NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822701.5'
8778	21745	35167	0.55	0.0E+00	AW245765.1	EST_HUMAN	2822701 Splice NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822701.5'
8779	21746	35168	2.82	0.0E+00	4756693	NT	Homo sapiens mitogen-activated protein kinase kinase 13 (MAP3K13), mRNA
8779	21746	35169	2.62	0.0E+00	4756695	NT	Homo sapiens mitogen-activated protein kinase kinase 13 (MAP3K13), mRNA
8783	21750	35172	0.52	0.0E+00	U83084.1	NT	Human zinc finger protein (ZNF165), gene, exons 2 and 3
8783	21750	35173	0.52	0.0E+00	U83084.1	NT	Human zinc finger protein (ZNF165), gene, exons 2 and 3
8851	21818	35238	1.02	0.0E+00	AJ251760.1	NT	Homo sapiens NESF55, GNA51 antisense (partial) and Xl alpha (partial) genes
8856	21823	35244	3	0.0E+00	X98922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
8856	21823	35245	3	0.0E+00	X98922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
8856	21823	35246	3	0.0E+00	X98922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
8871	21838	35250	1.82	0.0E+00	U82378.1	NT	Human immunoglobulin-like transcript-3 mRNA, complete cds
8913	21879	35305	1.16	0.0E+00	AF022955.1	NT	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
8913	21879	35306	1.16	0.0E+00	AF022955.1	NT	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
8916	21882	35308	0.68	0.0E+00	AU131871.1	EST_HUMAN	AU131871 NT2RF3 Homo sapiens cDNA clone NT2RF3003016.5'
8931	21897	35325	0.81	0.0E+00	11428572	NT	Homo sapiens immunoglobulin superfamily, member 2 (IGSF2), mRNA
8935	21901		1.53	0.0E+00	AW513513.1	EST_HUMAN	X04801.x1 NCI_CGAP_U1 Homo sapiens cDNA clone IMAGE:2707032.3 similar to gb.M14123_cds4
8937	21903		0.55	0.0E+00	BE783232.1	EST_HUMAN	RETROVIRUS-RELATED POL POLYPROTEIN (HUMAN);
8938	21904	35328	11.32	0.0E+00	D52650.1	EST_HUMAN	HUM084C023 Clontech human fetal brain polyA+ mRNA (#8535) Homo sapiens cDNA clone GEN-084C02.5'
8969	21935	35341	3.89	0.0E+00	BE378495.1	EST_HUMAN	60123489F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3603708.5'
8975	21941	35305	3.98	0.0E+00	A4410545.1	EST_HUMAN	2522604.1 Scars away tumor NHOT1 Homo sapiens cDNA clone IMAGE:724082.5'
8977	21943		3.27	0.0E+00	BF313948.1	EST_HUMAN	60190057F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128744.5'
8984	21950	35374	1.37	0.0E+00	11424387	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3 (LILRB3), mRNA
8989	21955	35378	1.38	0.0E+00	AW139673.1	EST_HUMAN	U14801.x1 NCI_CGAP_S3a33 Homo sapiens cDNA clone IMAGE:2717687.3'
8989	21955	35380	1.38	0.0E+00	AW139673.1	EST_HUMAN	U14801.x1 NCI_CGAP_S3a33 Homo sapiens cDNA clone IMAGE:2717687.3'
8994	21960		0.61	0.0E+00	AI640190.1	EST_HUMAN	W330610.X1 NCI_CGAP_KidT11 Homo sapiens cDNA clone IMAGE:2286578.3' similar to TR-O15044
9013	21979	35398	3.23	0.0E+00	BF377897.1	EST_HUMAN	OT15044 KIAA0335.1
9022	21988	35410	0.45	0.0E+00	AL163301.2	NT	CMT-TN0141-250600-439-p08 TN0141 Homo sapiens cDNA
9028	21994	35414	2.33	0.0E+00	BE260272.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C101
9033	21999	35418	2.88	0.0E+00	BF700165.1	EST_HUMAN	601150031F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502836.5'
9033	21999	35419	2.88	0.0E+00	BF700165.1	EST_HUMAN	602127694F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542.5'
9033	21999	35419	2.88	0.0E+00	BF700165.1	EST_HUMAN	602127694F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542.5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9033	21989	35420	2.98	0.0E+00	BF700165.1	EST_HUMAN	160217664F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4284542 5'
9047	22013	35436	0.63	0.0E+00	AI458722.1	EST_HUMAN	1K13111.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2150949 3'
9076	22042	35465	0.7	0.0E+00	AL449770.1	EST_HUMAN	AL449770 Homo sapiens fetal brain (Slavides GS) Homo sapiens cDNA
9084	22050	35472	12.96	0.0E+00	AA96257.1	EST_HUMAN	980902.s1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1602104 3' similar to gb:M36072 60S
9090	22056	35480	4.79	0.0E+00	10947037	NT	RIBOSOMAL PROTEIN L7A (HUMAN);
9090	22080	35481	4.79	0.0E+00	10947037	NT	Homo sapiens ankyrin 1, erythrocytic (ANK1), transcript variant 1, mRNA
9114	22080	35508	1.23	0.0E+00	Y1107.3	NT	Homo sapiens ankyrin 1, erythrocytic (ANK1), transcript variant 1, mRNA
9118	22082	35510	2.41	0.0E+00	BE278917.1	EST_HUMAN	Homo sapiens ITGB4 gene for integrin beta 4 subunit, exons 3-41
9128	22092		3.32	0.0E+00	AV718377.1	EST_HUMAN	601158330.F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3139734 5'
9132	22098	35525	3.38	0.0E+00	AW337277.1	EST_HUMAN	AV718377 FHTB Homo sapiens cDNA clone FHTBAAF11 5'
9138	22104	35530	1.56	0.0E+00	AU124051.1	EST_HUMAN	xw7ac07.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2833644 3' similar to gb:X53587
9214	22180	35511	0.86	0.0E+00	AU140704.1	EST_HUMAN	INTEGRIN BETA-4 SUBUNIT PRECURSOR (HUMAN);
9224	22190	35520	0.35	0.0E+00	AB007923.1	NT	AU140704.5 IMAGE4 Homo sapiens cDNA clone PLACE4000388 5'
9229	22195	35523	0.61	0.0E+00	R17132.1	EST_HUMAN	Homo sapiens mRNA for KIAA0464 protein, partial cds
9233	22196	35527	5.11	0.0E+00	AW592233.1	EST_HUMAN	yg09e09.r1 Scores Infant brain 1N1B Homo sapiens cDNA clone IMAGE:31674 5'
9233	22198	35528	5.11	0.0E+00	AW592233.1	EST_HUMAN	yg09e09.r1 Scores Infant brain 1N1B Homo sapiens cDNA clone IMAGE:31674 5'
9269	22235	35564	0.49	0.0E+00	AU126804.1	EST_HUMAN	h484a09.x1 Scores NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2835096 3'
9281	22247	35576	0.89	0.0E+00	AW171764.1	EST_HUMAN	h484a09.x1 Scores NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2835096 3'
9295	22262	35590	3.01	0.0E+00	AL040428.1	EST_HUMAN	AV717884 DGB Homo sapiens cDNA clone DGBAU08 5'
9295	22262	35591	3.01	0.0E+00	AL040428.1	EST_HUMAN	AV717884 DGB Homo sapiens cDNA clone DGBAU08 5'
9302	22287	35697	1.27	0.0E+00	AF133901.1	NT	DKFZP434C1814.1 3' 434 (synonym: hies3) Homo sapiens cDNA clone DKFZP434C1814 3'
9304	22289	35700	1.89	0.0E+00	AB040945.1	NT	DKFZP434C1814.1 3' 434 (synonym: hies3) Homo sapiens cDNA clone DKFZP434C1814 3'
9310	22275	35707	2.24	0.0E+00	BF675905.1	EST_HUMAN	Homo sapiens killer inhibitory receptor 2-2-1 (KIR221) and killer inhibitory receptor 2-2-2 (KIR222) genes, partial cds
9312	22277		0.92	0.0E+00	BF058289.1	EST_HUMAN	Homo sapiens mRNA for KIAA1512 protein, partial cds
9342	22307	35733	4.94	0.0E+00	11422857	NT	Homo sapiens mRNA for KIAA1512 protein, partial cds
9352	22317	35743	1.44	0.0E+00	K01241.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
9361	22326	35754	4.23	0.0E+00	AB020630.1	NT	Human Ig rearranged H-chain epsilon-3 pseudogene, constant region
9361	22326	35755	4.23	0.0E+00	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
9368	22331	35781	1.71	0.0E+00	AV680739.1	EST_HUMAN	Homo sapiens mRNA for KIAA0823 protein, partial cds
							AV680739 GLC Homo sapiens cDNA clone GLCGKG12 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9372	22337	35767	3.07	0.0E+00	7706639	NT	Homo sapiens polyoma-L (PKDL), mRNA
9377	22342	35772	2.22	0.0E+00	BE79328.1	EST_HUMAN	H01588304F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3942853 5'
9378	22343	35773	0.46	0.0E+00	AB033077.1	NT	Homo sapiens mRNA for KIAA1251 protein, partial cds
9378	22343	35774	0.46	0.0E+00	AB033077.1	NT	Homo sapiens mRNA for KIAA1251 protein, partial cds
9391	22356	35793	0.98	0.0E+00	H73637.1	EST_HUMAN	U03108.r1 Sacchara fida liver spleen 1N1LS Homo sapiens cDNA clone IMAGE:232767 5'
9401	22366	35798	4.19	0.0E+00	BE315402.1	EST_HUMAN	601141119F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3140740 5'
9401	22368	35799	4.19	0.0E+00	BE315402.1	EST_HUMAN	601141119F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3140740 5'
9411	22376	35814	0.59	0.0E+00	BE612721.1	EST_HUMAN	601452592F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3658100 5'
9411	22376	35815	0.59	0.0E+00	BE612721.1	EST_HUMAN	601452592F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3658100 5'
9414	22379		0.52	0.0E+00	M89986.1	NT	Human polymorphic loci in Xq28
9416	22381	35819	1.74	0.0E+00	X14766.1	NT	Human mRNA for GABA-A receptor, alpha 1 subunit
9433	22397	35835	0.5	0.0E+00	AU127096.1	EST_HUMAN	AU127096 NT2P2 Homo sapiens cDNA clone NT2P2000579 5'
9437	22401	35839	1.29	0.0E+00	AI061395.1	EST_HUMAN	en28e04.x1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:700084 3'
9442	22408	35843	1.96	0.0E+00	AIG54607.1	EST_HUMAN	w334a12.x1 NCL CGAP_G08 Homo sapiens cDNA clone IMAGE:2473150 3' similar to SW:MG83_HUMAN
9447	22411	35848	4.1	0.0E+00	9256585	NT	O15480 MELANOMA-ASSOCIATED ANTIGEN B3
9458	22422	35960	1.18	0.0E+00	AW968311.1	EST_HUMAN	Homo sapiens protocadherin alpha 8 (PCDH8), mRNA
9468	22432	35870	4.72	0.0E+00	9635487	NT	EST1370381 IMAGE resequences, IMAGE Homo sapiens cDNA
9484	22448	35888	1.44	0.0E+00	AU142982.1	EST_HUMAN	Human endogenous retrovirus, complete genome
9499	22463	35904	1.49	0.0E+00	11436985	NT	AU142982 Y79AA1 Homo sapiens cDNA clone Y79AA100078 5'
9500	22464		0.3	0.0E+00	BE410768.1	EST_HUMAN	Homo sapiens MAP-kinase activating death domain (MADD), mRNA
9513	22476	35921	1.29	0.0E+00	BR002024.1	EST_HUMAN	601301876F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636183 5'
9527	22490	35937	1.25	0.0E+00	AB011150.1	NT	7q97h12.x1 NCL CGAP_C018 Homo sapiens cDNA clone IMAGE:3314471 3' similar to TR:OBUH62
9528	22491	35938	4.85	0.0E+00	BE794823.1	EST_HUMAN	QBUH62 HYPOTHETICAL 42.5 KD PROTEIN
9534	22497	35945	1.04	0.0E+00	AU136229.1	EST_HUMAN	Homo sapiens mRNA for KIAA0578 protein, partial cds
9539	22502	35950	1.36	0.0E+00	BE863843.1	EST_HUMAN	601589234F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943463 5'
9539	22502	35951	1.36	0.0E+00	BE863843.1	EST_HUMAN	AU136229 PLACE1 Homo sapiens cDNA clone PLACE1003804 5'
9557	22519	35967	0.77	0.0E+00	AB011186.1	NT	601510247F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3611986 5'
9561	22523	35971	3.53	0.0E+00	A4344601.1	EST_HUMAN	601510247F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3611986 5'
9581	22523	35972	3.53	0.0E+00	A4344601.1	EST_HUMAN	Homo sapiens mRNA for KIAA0594 protein, partial cds
							EST150505 Gall bladder 1 Homo sapiens cDNA 5' end
							EST150505 Gall bladder 1 Homo sapiens cDNA 5' end
							bc94d08.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900387 5' similar to TR:O60275
9619	22563	36011	1.02	0.0E+00	AW673469.1	EST_HUMAN	KIAA0522 PROTEIN

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9619	22563	36012	1.02	0.0E+00	AW673469.1	EST_HUMAN	bat4a08.v4 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900387 5' similar to TR:060275 O60275 KIAA0522 PROTEIN ;
9653	22596	36044	4.71	0.0E+00	BE207083.1	EST_HUMAN	bat0905.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823873 5' similar to gb:L35049 Mus musculus Bcl-xL mRNA, complete cds (MOUSE);
9653	22596	36045	4.71	0.0E+00	BE207083.1	EST_HUMAN	bat0905.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823873 5' similar to gb:L35049 Mus musculus Bcl-xL mRNA, complete cds (MOUSE);
9654	22821	36275	1.77	0.0E+00	BF348013.1	EST_HUMAN	602023150F1 NC1 CGAP_Bn67 Homo sapiens cDNA clone IMAGE:4158300 5'
9700	22653	36107	2.9	0.0E+00	BE172515.1	EST_HUMAN	QV2-H10688-250700-282-508 HT0688 Homo sapiens cDNA
9732	22760	36213	0.86	0.0E+00	BF034377.1	EST_HUMAN	601485116F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3899035 5'
9732	22760	36214	0.86	0.0E+00	BF034377.1	EST_HUMAN	601485116F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3899035 5'
9738	22766	36221	0.53	0.0E+00	A1906351.1	EST_HUMAN	RC-BT108-040398-032 BT108 Homo sapiens cDNA
9741	22769	36223	3.69	0.0E+00	5803069	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 5 (LILRB5), mRNA
9741	22769	36224	3.69	0.0E+00	5803069	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 5 (LILRB5), mRNA
9751	22692	36149	2.54	0.0E+00	AL042278.1	EST_HUMAN	DKFZP434L0120.1 434 (synonym: lites3) Homo sapiens cDNA clone DKFZP434L0120 5'
9786	22727	36183	2.35	0.0E+00	A1089043.1	EST_HUMAN	ow6001.x1 Soares_NSF_F8_gw_OT_PA_P_51 Homo sapiens cDNA clone IMAGE:1661249 3' similar to TR:Q14877 Q14877 KIAA0171 PROTEIN ;
9793	21116	34513	0.85	0.0E+00	BF309922.1	EST_HUMAN	601862245F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4138008 5'
9795	21118	34518	2.64	0.0E+00	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
9795	21118	34519	2.64	0.0E+00	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
9767	21120	34522	20.82	0.0E+00	A1290909.1	EST_HUMAN	qm09406.x1 NC1 CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1881298 3' similar to SW:RL2B_HUMAN P28316 60S RIBOSOMAL PROTEIN L23A ;
9767	21120	34523	20.82	0.0E+00	A1290909.1	EST_HUMAN	qm09406.x1 NC1 CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1881298 3' similar to SW:RL2B_HUMAN P28316 60S RIBOSOMAL PROTEIN L23A ;
9798	21121	34524	3.57	0.0E+00	AW693836.1	EST_HUMAN	EST366028 IMAGE: ressequences, MAGC Homo sapiens cDNA
9825	22674	36129	3.43	0.0E+00	AF153486.1	NT	Homo sapiens polycystic kidney disease 2-like protein (PKD2L) gene, exon 8
9828	22677	36133	0.86	0.0E+00	BE865128.1	EST_HUMAN	601510842F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912165 5'
9828	22677	36134	0.86	0.0E+00	BE865128.1	EST_HUMAN	601510842F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912165 5'
9837	22773	36231	22.2	0.0E+00	BE259828.1	EST_HUMAN	601106942F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350722 5'
9840	22776	36231	1.35	0.0E+00	BE781382.1	EST_HUMAN	601486828F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870007 5'
9840	22776	36232	1.35	0.0E+00	BE781382.1	EST_HUMAN	601486828F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870007 5'
9843	22779	36234	30.94	0.0E+00	AW163779.1	EST_HUMAN	au18604.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783142 5' similar to gb:M69072 60S RIBOSOMAL PROTEIN L7A (HUMAN).

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9854	22780	36242	0.44	0.0E+00	D87673.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
9857	22803	36257	3.12	0.0E+00	BE28319.1	EST_HUMAN	601146054F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3160477 5'
9858	22838	36263	4.11	0.0E+00	C06158.1	EST_HUMAN	C06158 Human pancreatic islet Homo sapiens cDNA clone Hb5605
9859	22838	36264	4.11	0.0E+00	C06158.1	EST_HUMAN	C06158 Human pancreatic islet Homo sapiens cDNA clone Hb5605
9867	22840	36297	2.92	0.0E+00	BE746215.1	EST_HUMAN	601578685F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3927948 5'
9867	22850	36307	1.81	0.0E+00	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
9867	22850	36308	1.81	0.0E+00	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
9867	22850	36309	1.81	0.0E+00	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
9867	22738	36191	1.49	0.0E+00	BE900549.1	EST_HUMAN	601673425F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3956238 5'
9865	22862	36323	0.91	0.0E+00	AY701826.1	EST_HUMAN	AY701826 ADB Homo sapiens cDNA clone ADBBYH01 5'
9847	22874	36335	2.59	0.0E+00	AF019084.1	NT	Homo sapiens keratin 2e (KRT2E) gene, complete cds
9847	22874	36336	2.59	0.0E+00	AF019084.1	NT	Homo sapiens keratin 2e (KRT2E) gene, complete cds
9880	22907	36372	1.86	0.0E+00	BE082877.1	EST_HUMAN	RC2-8T0642-130300-017-g01 BT0642 Homo sapiens cDNA
9896	22826	36392	2.65	0.0E+00	AW500263.1	EST_HUMAN	UHF-BNO-406-b-12-0-UI/r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076943 5'
9899	22826	36393	2.65	0.0E+00	AW500263.1	EST_HUMAN	UHF-BNO-406-b-12-0-UI/r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076943 5'
10008	22935	36399	1.45	0.0E+00	AF026308.1	NT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and tyrosinogen gene families
10008	22935	36400	1.45	0.0E+00	AF026308.1	NT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and tyrosinogen gene families
10010	22937	36401	0.76	0.0E+00	BE783272.1	EST_HUMAN	601470824F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874037 5'
10010	22937	36402	0.76	0.0E+00	BE783272.1	EST_HUMAN	601470824F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874037 5'
10019	22946	36413	0.52	0.0E+00	W56629.1	EST_HUMAN	z016e11.r1 Soares_fetal_NIH919W Homo sapiens cDNA clone IMAGE:340844 5'
10019	22946	36414	0.52	0.0E+00	W56629.1	EST_HUMAN	z016e11.r1 Soares_fetal_NIH919W Homo sapiens cDNA clone IMAGE:340844 5'
10032	22959	36427	1.05	0.0E+00	AB035356.1	NT	Homo sapiens mRNA for neuron - alpha protein, complete cds
10038	22963	36432	0.56	0.0E+00	AI24780.1	EST_HUMAN	an58a11.r1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1559548 3'
10038	22965	36432	2.73	0.0E+00	AW500528.1	EST_HUMAN	UHF-BNO-406-c-07-0-UI/r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077984 5'
10082	23009	36481	1.51	0.0E+00	AF008988.1	NT	Multiple sclerosis associated retrovirus polyprotein (ps) mRNA, partial cds
10109	23035	36512	2.37	0.0E+00	S78466.1	NT	AIGF-androgen-induced growth factor AIGF [human, placenta, Genomic/mRNA, 498 nt, segment 5 of 5]
10109	23035	36513	2.37	0.0E+00	S78466.1	NT	AIGF-androgen-induced growth factor AIGF [human, placenta, Genomic/mRNA, 498 nt, segment 5 of 5]
10112	23038	36518	3.13	0.0E+00	BE563320.1	EST_HUMAN	601334603F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3688690 5'
10132	23058	36535	1.42	0.0E+00	AW363135.1	EST_HUMAN	CN2-CT0311-301189-043-r11 CT0311 Homo sapiens cDNA
10152	23077	36553	0.61	0.0E+00	11436432	NT	Homo sapiens mullerlin (MULN), mRNA

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10153	23078	36554	1.71	0.0E+00	11424387	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3 (LILRB3), mRNA
10162	23087	36564	0.82	0.0E+00	BE06710.1	EST_HUMAN	h26801.x1 NIH_MGC_5 Homo sapiens cDNA clone IMAGE:2684000 3'
10178	23103	36593	2.6	0.0E+00	AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 5'
10178	23103	36594	2.6	0.0E+00	AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 5'
10187	23112	36596	1.82	0.0E+00	AW506936.1	EST_HUMAN	UI-HF-BPp-ar-405-o-U1r1 NIH_MGC_51 Homo sapiens cDNA clone IMAGE:3072897 5'
10193	23118	36602	16.11	0.0E+00	BE746490.1	EST_HUMAN	60156558F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3949383 5'
10193	23118	36603	16.11	0.0E+00	BE746490.1	EST_HUMAN	60156558F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3949383 5'
10194	23119	36604	0.46	0.0E+00	AB033057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
10194	23119	36605	0.46	0.0E+00	AB033057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
10206	23131	36618	1.76	0.0E+00	7662067	NT	Homo sapiens KIAA0345 gene product (KIAA0345), mRNA
10224	23149	36638	3.6	0.0E+00	AL042278.1	EST_HUMAN	DKFZp434L0120.1_1_434 (synonym: h263) Homo sapiens cDNA clone DKFZp434L0120 5'
10229	23154	36644	0.71	0.0E+00	AL041084.2	EST_HUMAN	DKFZp434B2416.1_1_434 (synonym: h263) Homo sapiens cDNA clone DKFZp434B2416 5'
10239	23164	36651	2.57	0.0E+00	AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 5'
10240	23165	36652	2.44	0.0E+00	AF152203.1	NT	Homo sapiens protocadherin alpha 12 (PCDH-alpha12) mRNA, complete cds
10258	23193	36690	5.52	0.0E+00	AF008220.1	NT	Homo sapiens leucocyte immunoglobulin-like receptor-1 mRNA, complete cds
10258	23193	36681	5.52	0.0E+00	AF008220.1	NT	Homo sapiens leucocyte immunoglobulin-like receptor-1 mRNA, complete cds
10284	23209	36694	2.5	0.0E+00	BF082898.1	EST_HUMAN	MR4-TN0114-110800-101-e24 TN0114 Homo sapiens cDNA
10314	23238	36720	2.73	0.0E+00	BE280793.1	EST_HUMAN	601155227F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3138788 5'
10323	23247	36726	1.2	0.0E+00	BE388700.1	EST_HUMAN	601286351F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3613045 5'
10323	23247	36727	1.2	0.0E+00	BE388700.1	EST_HUMAN	601286351F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3613045 5'
10332	23247	36728	1.2	0.0E+00	BE388700.1	EST_HUMAN	601286351F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3613045 5'
10332	23256	36733	3.64	0.0E+00	AW236259.1	EST_HUMAN	nt72801.x1 NC1 CGAP CWL1 Homo sapiens cDNA clone IMAGE:2699977 3' similar to gb-X02162_cds1 L-LACTATE DEHYDROGENASE M CHAIN (HUMAN);
10333	23257	36734	0.75	0.0E+00	A4341305.1	EST_HUMAN	EST148740 Fetal Kidney II Homo sapiens cDNA 5' and
10342	23266	36745	0.63	0.0E+00	11427255	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHST1), mRNA
10363	23286	36763	0.75	0.0E+00	AW964113.1	EST_HUMAN	EST1376168 MAGE resequences, MAGE Homo sapiens cDNA
10376	23299	36774	7.08	0.0E+00	AU143673.1	EST_HUMAN	AU143673 Y79A1 Homo sapiens cDNA clone Y79A1.002307 5'
10376	23299	36775	7.08	0.0E+00	AU143673.1	EST_HUMAN	AU143673 Y79A1 Homo sapiens cDNA clone Y79A1.002307 5'
10379	23302	36778	13.11	0.0E+00	AF072408.1	NT	Homo sapiens killer cell inhibitory receptor (KIR) gene, exons 2, 3, and 4
10382	23304	36780	2.8	0.0E+00	11421001	NT	Homo sapiens HEF like Protein (HEFL), mRNA
10382	23304	36781	2.8	0.0E+00	11421001	NT	Homo sapiens HEF like Protein (HEFL), mRNA
10416	23339	36824	3.43	0.0E+00	AU136637.1	EST_HUMAN	AU136637 PLACE1 Homo sapiens cDNA clone PLACE1004737 5'
10416	23339	36825	3.43	0.0E+00	AU136637.1	EST_HUMAN	AU136637 PLACE1 Homo sapiens cDNA clone PLACE1004737 5'
10432	23354	36830	2.24	0.0E+00	AJ258844.1	NT	Homo sapiens partial RANBP7 gene for RANBP7/importin7 and partial ZNF143 gene

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10432	23354	38840	2.24	0.0E+00	AJ295844.1	NT	Homo sapiens partial RANBP7 gene for RANBP7/Importin7 and partial ZNF143 gene
10437	23359	38847	0.75	0.0E+00	AV695712.1	EST_HUMAN	AV695712 GK Homo sapiens cDNA clone GKDXA07 5'
10437	23359	38848	0.75	0.0E+00	AV695712.1	EST_HUMAN	AV695712 GK Homo sapiens cDNA clone GKDXA07 5'
10443	23365	38855	0.76	0.0E+00	AF072408.1	NT	Homo sapiens killer cell inhibitory receptor KIR3G gene, exons 2, 3, and 4
10445	23367	38858	2.64	0.0E+00	AA195387.1	EST_HUMAN	292711.1.1 Stragans muscels 837209 Homo sapiens cDNA clone IMAGE:628167 5'
10470	23392	38887	1.78	0.0E+00	AA131248.1	EST_HUMAN	Z83107.1.1 Soares_pregnant_uterus_NHPU Homo sapiens cDNA clone IMAGE:503548 5'
10470	23392	38888	1.78	0.0E+00	AA131248.1	EST_HUMAN	Z83107.1.1 Soares_pregnant_uterus_NHPU Homo sapiens cDNA clone IMAGE:503548 5'
10517	23439	38937	1.79	0.0E+00	AF179308.1	NT	Homo sapiens KIF4 (KIF4) mRNA, complete cds
10561	23463	38978	0.88	0.0E+00	BE880958.1	EST_HUMAN	601497565F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3893667 5'
10573	23465	38987	11.49	0.0E+00	BE730772.1	EST_HUMAN	601570712F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3845403 5'
10573	23465	38988	11.49	0.0E+00	BE730772.1	EST_HUMAN	601570712F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3845403 5'
10578	23500	38992	0.62	0.0E+00	AU127403.1	EST_HUMAN	AU127403 NT2P2 Homo sapiens cDNA clone NT2P2001212 5'
10585	23510	37003	0.86	0.0E+00	BE958511.1	EST_HUMAN	601645134F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3930177 5'
10588	23510	37004	0.86	0.0E+00	BE958511.1	EST_HUMAN	601645134F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3930177 5'
10605	23527	37023	0.98	0.0E+00	BE897487.1	EST_HUMAN	601432317F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917453 5'
10616	23586	37037	0.98	0.0E+00	AA311624.1	EST_HUMAN	EST182363 Jurkat T-cells VI Homo sapiens cDNA 6' end
10617	23639	37038	0.58	0.0E+00	4758027	NT	Homo sapiens neuritin III (NRXN3) mRNA
10629	23551	37051	0.78	0.0E+00	BE891113.1	EST_HUMAN	601432228F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917598 5'
10632	23564	37054	1.19	0.0E+00	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
10642	23564	37060	1.39	0.0E+00	AB028260.1	NT	Homo sapiens mRNA for actin binding protein ABP20, complete cds
10643	23565	37061	0.6	0.0E+00	BE304622.1	EST_HUMAN	601105498F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:2887918 5'
10643	23565	37062	0.6	0.0E+00	BE304622.1	EST_HUMAN	601105498F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:2887918 5'
10650	23572	37067	4.13	0.0E+00	AB006590.1	NT	Homo sapiens mRNA for estrogen receptor beta, complete cds
10650	23572	37068	4.13	0.0E+00	AB006590.1	NT	Homo sapiens mRNA for estrogen receptor beta, complete cds
10658	23580	37077	1.27	0.0E+00	AA704457.1	EST_HUMAN	478008.61 Soares_fetal_liver_spleen_NFLS_S1 Homo sapiens cDNA clone IMAGE:460707 3' similar to g5m14123_cds1 RETROVIRUS-RELATED GAG POLYPROTEIN (HUMAN);
10680	23582	37078	1.19	0.0E+00	M22921.1	NT	Human beta 1.4-galactosyl-transferase mRNA, complete cds
10682	23584	37081	4.52	0.0E+00	BF340331.1	EST_HUMAN	602037045F1 NC1 CGAP Brn64 Homo sapiens cDNA clone IMAGE:4184939 5'
10692	23584	37082	4.52	0.0E+00	BF340331.1	EST_HUMAN	602037045F1 NC1 CGAP Brn64 Homo sapiens cDNA clone IMAGE:4184939 5'
10687	23609	37103	5.24	0.0E+00	BE897149.1	EST_HUMAN	601439713F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924578 5'
10687	23609	37104	5.24	0.0E+00	BE897149.1	EST_HUMAN	601439713F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924578 5'
10719	23641	37134	0.48	0.0E+00	AV716271.1	EST_HUMAN	AV716271 DC8 Homo sapiens cDNA clone DCBBDC09 5'
10719	23641	37135	0.48	0.0E+00	AV716271.1	EST_HUMAN	AV716271 DC8 Homo sapiens cDNA clone DCBBDC09 5'

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10750	23672	37167	1.13	0.0E+00	AI631818.1	EST_HUMAN	wa86d03.x1 NCL_CGAP_Ki6711 Homo sapiens cDNA clone IMAGE:2300188.3 similar to TR-Q61204
10750	23672	37168	1.13	0.0E+00	AI631818.1	EST_HUMAN	Q61204 NOTCH2-LIKE ;
10764	23685	37181	2	0.0E+00	TG3078.1	EST_HUMAN	wa86d03.x1 NCL_CGAP_Ki6711 Homo sapiens cDNA clone IMAGE:2300188.3 similar to TR-Q61204
10769	23710	37212	0.87	0.0E+00	AU122429.1	EST_HUMAN	FB234.4 Fetal brain, StageGene Homo sapiens cDNA clone FB234.4 3' end
10795	23716	37218	0.63	0.0E+00	6005921	NT	AU122429 MAMMA1 Homo sapiens cDNA clone MAMMA1002368.5
10817	23738	37241	2.63	0.0E+00	BF435218.1	EST_HUMAN	Homo sapiens triple functional domain (P/TPRF interacting) (TRIO), mRNA
10818	23739		1.3	0.0E+00	AV654756.1	EST_HUMAN	na45612.x1 Scores_NSIF_F9_SW_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3265271.3
10837	23767	37257	5.03	0.0E+00	AW517980.1	EST_HUMAN	AV654765 GLG Homo sapiens cDNA clone GLDZC07.3
10841	23761	37261	18.38	0.0E+00	BE549213.1	EST_HUMAN	x174901.x1 NCL_CGAP_Ki68 Homo sapiens cDNA clone IMAGE:2507401.3 similar to gb:M69068 MOESIN (HUMAN);
10858	23778	37278	0.84	0.0E+00	11438005	NT	601078764.F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3464703.5
10884	23804	37307	0.44	0.0E+00	X68993.1	NT	Homo sapiens hypothetical protein DKFZp761P1010 (DKFZp761P1010), mRNA
10884	23804	37308	4.15	0.0E+00	BE781742.1	EST_HUMAN	H.sapiens mRNA for NK receptor (183 Act)
10903	23823	37334	3.07	0.0E+00	BE082720.1	EST_HUMAN	601467419.F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870700.5
10903	23823	37335	3.07	0.0E+00	BE082720.1	EST_HUMAN	RC2.BT0642:150200-012-003 BT0642 Homo sapiens cDNA
10910	23830	37343	0.56	0.0E+00	Y08032.1	NT	RC2.BT0642:150200-012-003 BT0642 Homo sapiens cDNA
10915	23835	37351	0.7	0.0E+00	AI656800.1	EST_HUMAN	Human endogenous retrovirus-K, LTR U5 and gag gene
10922	23842	37359	1.6	0.0E+00	BE743215.1	EST_HUMAN	601573895.F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:2244612.3
10925	23845	37360	0.97	0.0E+00	BE617695.1	EST_HUMAN	601573895.F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3835198.5
10926	23845	37361	0.97	0.0E+00	BE617695.1	EST_HUMAN	601573895.F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3835198.5
10946	23866	37390	0.55	0.0E+00	H338005.1	EST_HUMAN	601447723.T1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3844956.3
10960	23880	37393	0.48	0.0E+00	AW748117.1	EST_HUMAN	yp01a10.1 Scores_breast_SNHFB1 Homo sapiens cDNA clone IMAGE:166138.5
10972	23862	37408	1.16	0.0E+00	D87675.1	NT	QV0-BT0107:230799-007-c08 BT0107 Homo sapiens cDNA
10973	23863	37407	0.48	0.0E+00	AF081364.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
10984	23914	37430	0.48	0.0E+00	AW342141.1	EST_HUMAN	Synthetic construct CD30 ligand-exonin A fusion protein (CD30L-ETA fusion) mRNA, partial cds
10984	23914	37431	0.46	0.0E+00	AW342141.1	EST_HUMAN	EST 00007 Human differential display products Homo sapiens cDNA clone UNCCDD7
10989	23955	37469	1.72	0.0E+00	AV711075.1	EST_HUMAN	EST 00007 Human differential display products Homo sapiens cDNA clone UNCCDD7
10989	23955	37480	1.72	0.0E+00	AV711075.1	EST_HUMAN	AV711075 Cu Homo sapiens cDNA clone CUAAG005.5
11001	23967	37490	3.29	0.0E+00	AW813788.1	EST_HUMAN	AV711075 Cu Homo sapiens cDNA clone CUAAG005.5
11007	23972	37496	6.07	0.0E+00	AW963963.1	EST_HUMAN	RC3-ST0197:120200-015-a03 ST0197 Homo sapiens cDNA
11019	23984	37510	1.81	0.0E+00	11431124	NT	EST1376588 IMAGE:rescuees, MAGH Homo sapiens cDNA
							Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11019	23984	37511	1.81	0.0E+00	11431124	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
11023	23988	37515	1.76	0.0E+00	AW057621.1	EST_HUMAN	wf1109.x1 Soares, NSF, F8_OT_PA_P_31 Homo sapiens cDNA clone IMAGE:2653065 3' similar to TR-060566 Q9566 VDX;
11029	23993	37520	1.96	0.0E+00	BE243270.1	EST_HUMAN	TCAPAD00917 Podiatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project-TCAA Homo sapiens cDNA clone TCAPAD0917
11030	23994	37521	2.54	0.0E+00	A1652239.1	EST_HUMAN	wb28at12.x1 NCI, CGAP, G06 Homo sapiens cDNA clone IMAGE:2300674 3' similar to contains element MSR1 MSR1 repetitive element;
11030	23994	37522	2.54	0.0E+00	A1652239.1	EST_HUMAN	wb28at12.x1 NCI, CGAP, G06 Homo sapiens cDNA clone IMAGE:2300674 3' similar to contains element MSR1 MSR1 repetitive element;
11034	23998	37525	2.13	0.0E+00	BF306642.1	EST_HUMAN	Homo sapiens NOD2 protein (NOD2), mRNA
11041	24005	37531	3.83	0.0E+00	11545911	NT	Homo sapiens NOD2 protein (NOD2), mRNA
11041	24005	37532	3.83	0.0E+00	11545911	NT	U-HF-BLO-acc-d-04-UJ17 NIH, MGC 37 Homo sapiens cDNA clone IMAGE:3059383 5'
11055	24018	37541	5.31	0.0E+00	AW404765.1	EST_HUMAN	Homo sapiens lipochemical protein FLJ20076 (FLJ20076), mRNA
11058	24021	37544	2.69	0.0E+00	11424829	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1E (HTR1E) mRNA
11059	24022	37545	7.34	0.0E+00	4504536	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1E (HTR1E) mRNA
11059	24022	37546	7.34	0.0E+00	4504536	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1E (HTR1E) mRNA
11060	24023	37547	2.71	0.0E+00	A1981827.1	EST_HUMAN	wb32006.x1 Soares, Diacylglycerol, colon, NHOD Homo sapiens cDNA clone IMAGE:2621715 3'
11063	24026	37551	1.64	0.0E+00	BE882109.1	EST_HUMAN	60150204F2 NIH, MGC, 71 Homo sapiens cDNA clone IMAGE:3905686 5'
11068	24029	37553	21.37	0.0E+00	BE801630.1	EST_HUMAN	60143452F1 NIH, MGC, 72 Homo sapiens cDNA clone IMAGE:3919636 5'
11068	24031	37554	4.59	0.0E+00	8923939	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
11068	24031	37555	4.59	0.0E+00	8923939	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
11063	18962	32151	5.57	0.0E+00	AA195905.1	EST_HUMAN	7295B11.7 Stragene muscle 637209 Homo sapiens cDNA clone IMAGE:327933 5' similar to gb:X03740 MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN);
11103	24063	37586	100.2	0.0E+00	AA809080.1	EST_HUMAN	rw17c08.x1 NCI, CGAP, G06B Homo sapiens cDNA clone IMAGE:1240718 3' similar to gb:X57809 IG LAMBDA CHAIN G REGIONS (HUMAN);
11104	24064	37587	4.22	0.0E+00	BE793498.1	EST_HUMAN	60158862F1 NIH, MGC, 7 Homo sapiens cDNA clone IMAGE:394015 5'
11113	24073	37595	15.77	0.0E+00	AV727362.1	EST_HUMAN	AV727362 HTO Homo sapiens cDNA clone HTOCAHQ06 5'
11113	24073	37596	15.77	0.0E+00	AV727362.1	EST_HUMAN	AV727362 HTO Homo sapiens cDNA clone HTOCAHQ06 5'
11126	24086	37613	14.2	0.0E+00	AA464313.1	EST_HUMAN	zx78c12.1 Soares ovary tumor NBH07 Homo sapiens cDNA clone IMAGE:309876 5' similar to gb:X72467 IG KAPPA CHAIN PRECURSOR V-J REGION (HUMAN);
11129	24089	37618	24.26	0.0E+00	AW516055.1	EST_HUMAN	xy4q10.x1 NCI, CGAP, Lym12 Homo sapiens cDNA clone IMAGE:2862226 3' similar to gb:M60854 40S RIBOSOMAL PROTEIN S16 (HUMAN);
11134	24090	37623	1.88	0.0E+00	AU135741.1	EST_HUMAN	AU135741 PLACE1 Homo sapiens cDNA clone PLACE1002764 5'

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11130	24089	37626	3.36	0.0E+00	AW593333.1	EST_HUMAN	hg13d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 repetitive element;
11138	24089	37627	3.36	0.0E+00	AW593333.1	EST_HUMAN	hg13d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 repetitive element;
11138	24089	37628	3.36	0.0E+00	AW593333.1	EST_HUMAN	hg13d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 repetitive element;
11141	24101	37629	1.88	0.0E+00	Z34897.1	NT	Hsapiens mRNA for H1 histamine receptor
11142	24102	37630	2.54	0.0E+00	F13069.1	EST_HUMAN	HSC3C03.1 normalized infant brain cDNA Homo sapiens cDNA clone c-3ic03
11159	24117	37643	2.4	0.0E+00	M27751.1	NT	Homo sapiens immunoglobulin kappa-chain A14 V-region precursor (IGKV) gene, partial cds
11159	24117	37644	2.4	0.0E+00	M27751.1	NT	Homo sapiens immunoglobulin kappa-chain A14 V-region precursor (IGKV) gene, partial cds
11167	24125	37654	40.1	0.0E+00	AW335094.1	EST_HUMAN	xw66101.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2832985 3' similar to gb:X17115 (G MU CHAIN C REGION (HUMAN);
11168	24126	37655	3.54	0.0E+00	AW451230.1	EST_HUMAN	UHLB13-ali-e-01-QJLst NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2738649 3'
11168	24126	37656	3.54	0.0E+00	AW451230.1	EST_HUMAN	UHLB13-ali-e-01-QJLst NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2738649 3'
11170	13316		8.04	0.0E+00	4506832	NT	Homo sapiens ribosomal protein L31 (RPL31) mRNA
11184	24140	37674	2.07	0.0E+00	BE288448.1	EST_HUMAN	601119248-1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3029219 5'
11196	24151	37692	2.13	0.0E+00	AB011117.1	NT	Homo sapiens mRNA for KIAA0545 protein, partial cds
11196	24154	37696	1.69	0.0E+00	Z20556.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
11208	24160	37690	1.68	0.0E+00	BE264065.1	EST_HUMAN	60118924F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3538012 5'
11214	24167	37698	1.62	0.0E+00	BE792155.1	EST_HUMAN	601883204F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3936539 5'
11215	24168		70.33	0.0E+00	BF684061.1	EST_HUMAN	602141405F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4302432 5'
11217	24170	37698	7.66	0.0E+00	AU118386.1	EST_HUMAN	AU118386 HEMBA1 Homo sapiens cDNA clone HEMBA1003485 5'
11218	24171		2.51	0.0E+00	AW236269.1	EST_HUMAN	xnt72601.x1 NCI_CGAP_GML1 Homo sapiens cDNA clone IMAGE:2689977 3' similar to gb:X02162_cda1 L-LACTATE DEHYDROGENASE M CHAIN (HUMAN);
11223	24176	37702	4.92	0.0E+00	AU146906.1	EST_HUMAN	q43c03.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1752772 3'
11223	24176	37703	4.92	0.0E+00	AU146906.1	EST_HUMAN	q43c03.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1752772 3'
11224	24177	37704	2.09	0.0E+00	AW391937.1	EST_HUMAN	QVA-570234-121198-032-506 ST0234 Homo sapiens cDNA
11234	24187		1.54	0.0E+00	AU116908.1	EST_HUMAN	AU116908 HEMBA1 Homo sapiens cDNA clone HEMBA1000255 5'
11238	24191	37710	9.23	0.0E+00	11424726	NT	Homo sapiens insulin receptor (INSR) mRNA
11244	24197	37716	145.89	0.0E+00	AW804516.1	EST_HUMAN	QV0-UM0038-170400-191-c08 UM0038 Homo sapiens cDNA
11244	24197	37717	145.89	0.0E+00	AW804516.1	EST_HUMAN	QV0-UM0038-170400-191-c08 UM0038 Homo sapiens cDNA
11245	24198	37718	3.26	0.0E+00	BF340308.1	EST_HUMAN	602037014F1 NCI_CGAP_Bm84 Homo sapiens cDNA clone IMAGE:4184979 5'
11247	24200	37721	49.67	0.0E+00	BE261209.1	EST_HUMAN	601148357F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3163310 5'
11251	24204	37726	1.74	0.0E+00	AB020040.1	NT	Homo sapiens mRNA for KIAA1117 protein, partial cds

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF-SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11258	24208	37791	6.12	0.0E+00	U50328.1	NT	Human protein kinase C α catenins 80K-H (PRKCSH) gene, exon 15-17
11257	24209	37792	1.72	0.0E+00	Z27056.1	NT	Human alpha-myosin heavy chain gene
11260	24212	37795	6	0.0E+00	BE773036.1	EST_HUMAN	RC1-F10134-170700-012-07 F10134 Homo sapiens cDNA
11260	24212	37798	6	0.0E+00	BE773036.1	EST_HUMAN	RC1-F10134-170700-012-07 F10134 Homo sapiens cDNA
11283	24293	37799	89.91	0.0E+00	AA740782.1	EST_HUMAN	MSK1 repetitive element 1
11285	24295	37792	38.54	0.0E+00	AW469922.1	EST_HUMAN	head0404.x1 NCI CGAP K412 Homo sapiens cDNA clone IMAGE:2872759 3'
11291	24291	37798	2.85	0.0E+00	AF252903.1	NT	Homo sapiens signaling lymphocytic activation molecule (SLAM) gene, exon 2
11304	24284	37790	1.84	0.0E+00	BE296478.1	EST_HUMAN	601192748F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3536687 5'
11304	24284	37781	1.84	0.0E+00	BE296478.1	EST_HUMAN	601102748F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3536687 5'
11307	24257	37783	7.8	0.0E+00	CD5088.1	EST_HUMAN	CD5088 Human heart cDNA (YNAKamura) Homo sapiens cDNA clone 3NHC4817
11313	24263	37789	1.91	0.0E+00	AA746375.1	EST_HUMAN	oe560101.r1 NCI CGAP GCBT Homo sapiens cDNA clone IMAGE:1309009 5'
11313	24263	37790	1.91	0.0E+00	AA746375.1	EST_HUMAN	oe560101.r1 NCI CGAP GCBT Homo sapiens cDNA clone IMAGE:1309009 5'
11321	24271	37798	1.66	0.0E+00	BE353925.1	EST_HUMAN	QV24HT0698-020800-295-07 HT0698 Homo sapiens cDNA
11322	24272	37799	5.79	0.0E+00	AL157008.1	EST_HUMAN	DXF25761J2116.r1 761 (synonym: ham2) Homo sapiens cDNA clone DKF2p761J2116 5'
11333	24263	37807	6.83	0.0E+00	AI132437.1	EST_HUMAN	AUT16988 HEMBAT Homo sapiens cDNA clone HEMBA1000424 5'
11347	24297	37825	1.54	0.0E+00	AI132437.1	EST_HUMAN	AUT132437 NT2RP3 Homo sapiens cDNA clone NT2RP3004422 5'
11367	18866	32047	2.84	0.0E+00	AB035268.1	NT	Homo sapiens mRNA for neuritin II, complete cds
11367	18866	32048	2.84	0.0E+00	AB035268.1	NT	Homo sapiens mRNA for neuritin II, complete cds
11371	24318	37846	2.4	0.0E+00	BE182360.1	EST_HUMAN	PMO-HT0645-060500-002-503 HT0645 Homo sapiens cDNA
11371	24318	37847	2.4	0.0E+00	BE182360.1	EST_HUMAN	PMO-HT0645-060500-002-503 HT0645 Homo sapiens cDNA
11372	24319	37847	1.48	0.0E+00	AW701152.1	EST_HUMAN	AW701152 ADA Homo sapiens cDNA clone ADAAD06 5'
11387	24334	37863	76.44	0.0E+00	AW406380.1	EST_HUMAN	UI-HF-BL0-acc-c-06-0-U1.r1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3060086 5'
11390	24336	37895	2.81	0.0E+00	BE894423.1	EST_HUMAN	601439092F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924142 5'
11397	24342	37874	2.26	0.0E+00	AW500307.1	EST_HUMAN	UI-HF-BN0-acc-d-02-0-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077019 5'
11397	24342	37875	2.26	0.0E+00	AW500307.1	EST_HUMAN	UI-HF-BN0-acc-d-02-0-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077019 5'
							bb78c04.r1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3049486 5' similar to gb:Y00345_cds1
							POLYADENYLATE-BINDING PROTEIN (HUMAN), gb:X65553 M.musculus mRNA for poly(A) binding protein (MOUSE).
11398	24343	37876	7.11	0.0E+00	BE018293.1	EST_HUMAN	H sapiens gene for Ig kappa light chain variable region "011"
11407	24361	37806	14.82	0.0E+00	X59314.1	NT	H sapiens gene for Ig kappa light chain variable region "011"
11421	24365	37900	2.3	0.0E+00	AI121677.1	EST_HUMAN	AU121677 MAMMA1 Homo sapiens cDNA clone MAMMA1000731 5'
11430	24374	37913	4.14	0.0E+00	BE897953.1	EST_HUMAN	UI1440448F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3825403 5'
11431	24375	37914	1.58	0.0E+00	AI469645.1	EST_HUMAN	ae089t1.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1952804 3'
11431	24375	37915	1.58	0.0E+00	AI469645.1	EST_HUMAN	ae089t1.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1952804 3'

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	OFF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11441	24384	37924	4.53	0.0E+00	AL042278.1	EST_HUMAN	DKFZ454L0120_1134 (synonym: hsc3) Homo sapiens cDNA clone DKFZ454L0120 5'
11446	24389	37931	4.18	0.0E+00	F00884.1	EST_HUMAN	HS877E122 STRATAGENE Human skeletal muscle cDNA library, cat. #836215. Homo sapiens cDNA clone 77E12
11446	24389	37932	4.18	0.0E+00	F00884.1	EST_HUMAN	HS877E122 STRATAGENE Human skeletal muscle cDNA library, cat. #836215. Homo sapiens cDNA clone 77E12
11474	24417	37967	2.55	0.0E+00	4158827	NT	Homo sapiens neuritin II (NRXN3) mRNA
11475	24418	37968	3.38	0.0E+00	BF203561.1	EST_HUMAN	601870B02F1 NIH_MGC_79 Homo sapiens cDNA clone IMAGE:4101433 5'
11478	24421	37970	12.88	0.0E+00	AW207734.1	EST_HUMAN	U1-H12-agg-3-01-Q1.51 NCI CGAP Sub4 Homo sapiens cDNA clone IMAGE:2724312 3'
11479	24422	37971	5.09	0.0E+00	AW604975.1	EST_HUMAN	RC6-C10380-210100-032-c10 C10380 Homo sapiens cDNA
11479	24422	37972	5.09	0.0E+00	AW604975.1	EST_HUMAN	RC6-C10380-210100-032-c10 C10380 Homo sapiens cDNA
11483	24426	37975	2.91	0.0E+00	AB018280.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
11483	24426	37976	2.91	0.0E+00	AB018280.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
11484	24427	37977	3.54	0.0E+00	BE206846.1	EST_HUMAN	59KDA-ASSOCIATED PROTEIN.1
11484	24427	37978	3.54	0.0E+00	BE206846.1	EST_HUMAN	59KDA-ASSOCIATED PROTEIN.1
11508	24448	37998	2.13	0.0E+00	11024711	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
11509	20670	34037	1.82	0.0E+00	L32832.1	NT	Homo sapiens zinc finger homeodomain protein (ATBF1-A) mRNA, complete cds
11513	24454	38003	3.74	0.0E+00	BE148078.1	EST_HUMAN	RC3-H10230-040500-110-H04 H10230 Homo sapiens cDNA
11513	24454	38004	3.74	0.0E+00	BE148078.1	EST_HUMAN	RC3-H10230-040500-110-H04 H10230 Homo sapiens cDNA
11523	24464	38017	7.64	0.0E+00	AA195605.1	EST_HUMAN	3285b11.1 Stragena muscle 937209 Homo sapiens cDNA clone IMAGE:627593 5' similar to gb-X03740
11531	24472	38023	1.51	0.0E+00	AW673469.1	EST_HUMAN	MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN); KIAA0522 PROTEIN
11531	24472	38024	1.51	0.0E+00	AW673469.1	EST_HUMAN	KIAA0522 PROTEIN
11549	24490	38046	5.23	0.0E+00	BF507878.1	EST_HUMAN	U1-FB14-ack-b-10-Q1.51 NCI CGAP Sub8 Homo sapiens cDNA clone IMAGE:3085028 3'
11549	24490	38047	5.23	0.0E+00	BF507878.1	EST_HUMAN	U1-FB14-ack-b-10-Q1.51 NCI CGAP Sub8 Homo sapiens cDNA clone IMAGE:3085028 3'
11556	24496	38052	3.54	0.0E+00	AU135170.1	EST_HUMAN	AU135170 PLACE1 Homo sapiens cDNA clone PLACE1001381 5'
11560	24500	38056	1.84	0.0E+00	BF576138.1	EST_HUMAN	902132459F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4271630 5'
11560	24500	38057	1.84	0.0E+00	BF576138.1	EST_HUMAN	902132459F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4271630 5'
11561	24501	38058	17.24	0.0E+00	BE879401.1	EST_HUMAN	601498828F1 NIH_MGC_89 Homo sapiens cDNA clone IMAGE:3889207 5'
11561	24501	38059	17.24	0.0E+00	BE879401.1	EST_HUMAN	601498828F1 NIH_MGC_89 Homo sapiens cDNA clone IMAGE:3889207 5'
11567	24507	38064	2.9	0.0E+00	D87862.1	NT	Human mRNA for KIAA0241 gene, partial cds

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11571	24510		5.42	0.0E+00	BF240538.1	EST_HUMAN	601875930F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4099710 5'
11582	24520	38075	1.08	0.0E+00	AB037737.1	NT	Homo sapiens mRNA for KIAA1316 protein, partial cds
11592	24520	38076	1.88	0.0E+00	AB037737.1	NT	Homo sapiens mRNA for KIAA1316 protein, partial cds
11598	24524	38079	3.41	0.0E+00	11430868	NT	Homo sapiens retinoblastoma-like 2 (p130) [RBL2] mRNA
11598	24524	38080	3.41	0.0E+00	11430868	NT	Homo sapiens retinoblastoma-like 2 (p130) [RBL2] mRNA
11590	24528	38085	2.06	0.0E+00	BE122764.1	EST_HUMAN	23_08 Human Epidermal Keratinocyte Subtraction Library- Up-regulated Transcripts Homo sapiens cDNA clone J2_04 5' similar to Homo sapiens cyclin B2 (CCNB2)
11591	24529	38086	3.23	0.0E+00	BE017660.1	EST_HUMAN	b673h05.Y1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3048057 5' similar to SW:CD97_HUMAN
11595	24533	38089	2.69	0.0E+00	AA772837.1	EST_HUMAN	P48960 LEUCOCYTE ANTIGEN CD97 PRECURSOR, [1]:
11605	24543	38103	6.4	0.0E+00	4930544	NT	ae74904.s1 Striatum schizo brain S11 Homo sapiens cDNA clone IMAGE:969942 3'
11612	24550	38110	2.25	0.0E+00	BF576267.1	EST_HUMAN	Homo sapiens cytokinetic translation initiation factor 6A (EIF6A) mRNA
11615	24553	38114	5.5	0.0E+00	AW328173.1	EST_HUMAN	602134132F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4285602 5'
11620	24558		83.28	0.0E+00	M55083.1	NT	drd4g05.X1 NIH_MGC_3 Homo sapiens cDNA clone IMAGE:2847177 5'
11624	24562	38123	159.29	0.0E+00	AJ690968.1	EST_HUMAN	Human gamma actin-like pseudogene, complete cds
11625	24563	38124	2.3	0.0E+00	BF305998.1	EST_HUMAN	wf20e11.X1 Soares, Dieckgraefe, colon. NHUC Homo sapiens cDNA clone IMAGE:2351180 3' similar to gb:M87789 IG GAMMA-1 CHAIN C REGION (HUMAN).
11625	24563	38125	2.3	0.0E+00	BF305998.1	EST_HUMAN	601869823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:412948 5'
11632	24569	38133	69.51	0.0E+00	BF362462.1	EST_HUMAN	601869823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:412948 5'
11648	24585	38154	2.42	0.0E+00	U39254.1	NT	QV22.NM0054-230800-333-04 NM0054 Homo sapiens cDNA
11648	24585	38155	2.42	0.0E+00	U39254.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 16
11654	24591	38177	1.84	0.0E+00	BE697051.1	EST_HUMAN	Human beta-prime-adaptin (BAM22) gene, exon 16
11655	24591	38177	1.84	0.0E+00	8823868	NT	601439805F1 NIH_MGC_22 Homo sapiens cDNA clone IMAGE:3924577 5'
11688	24604		2.24	0.0E+00	BF207062.1	EST_HUMAN	Homo sapiens gelsolin-like protein (GLP), mRNA
11689	24605		4.82	0.0E+00	BE257744.1	EST_HUMAN	601180705F1 NIH_MGC_33 Homo sapiens cDNA clone IMAGE:4081715 5'
11682	24648	38225	4.13	0.0E+00	BE206846.1	EST_HUMAN	601118705F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3357394 5'
11682	24648	38226	4.13	0.0E+00	BE206846.1	EST_HUMAN	6014407.Y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:Q76022 O76022 E1B
11684	24650	38228	3.8	0.0E+00	AW763028.1	EST_HUMAN	5KDA-ASSOCIATED PROTEIN, .
11689	24655		4.96	0.0E+00	AA558707.1	EST_HUMAN	6014407.Y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:Q76022 O76022 E1B
11690	18451	31322	3.12	0.0E+00	AJ84954.1	EST_HUMAN	QV2C-CT0225-101299-071-066 CT0225 Homo sapiens cDNA
11691	24656	38234	8.28	0.0E+00	AW327895.1	EST_HUMAN	K42C08.S1 NCJ CGAP_P4 Homo sapiens cDNA clone IMAGE:1043342 similar to gb:M85178 ALPHA-ACTININ.1, CYTOSKELETAL ISOFORM (HUMAN);
							wc9g08.X1 NCJ CGAP_K612 Homo sapiens cDNA clone IMAGE:2484084 3'
							dr02803.X1 NIH_MGC_3 Homo sapiens cDNA clone IMAGE:2846919 5'

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11711	25705	38254	1.63	0.0E+00	AW1262776.1	EST_HUMAN	U14-BW0-aj1-07-0-U1 st NCL CGAP SubB Homo sapiens cDNA clone IMAGE:2729509 3'
11718	23915	37432	2.09	0.0E+00	4759827	NT	Homo sapiens neurodin II (NRXN3) mRNA
11724	24610	38186	2.43	0.0E+00	BE66909.2	EST_HUMAN	601659088RT NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3898918 3'
11724	24610	38187	2.43	0.0E+00	BE66909.2	EST_HUMAN	601659088RT NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3898918 3'
11725	24611	38188	3.67	0.0E+00	BE185656.1	EST_HUMAN	IL5-H10731-020500-077-405 H10731 Homo sapiens cDNA
11739	24824	38202	5.4	0.0E+00	AL046540.1	EST_HUMAN	DKFZp434G178.11 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434G178 5'
11739	24824	38203	5.4	0.0E+00	AL046540.1	EST_HUMAN	DKFZp434G178.11 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434G178 5'
11746	24631	38211	2.28	0.0E+00	BF082504.1	EST_HUMAN	NR4-BT0358-130900-016-a04 BT0358 Homo sapiens cDNA clone IMAGE:2452468 3' similar to gp-S37431 LAMININ RECEPTOR (HUMAN);
11750	24635	38214	19.22	0.0E+00	AI923116.1	EST_HUMAN	wb83g03.x1 NCL CGAP_U11 Homo sapiens cDNA clone IMAGE:2452468 3' similar to gp-S37431 LAMININ RECEPTOR (HUMAN);
11753	24681	38259	8.71	0.0E+00	AA760913.1	EST_HUMAN	nt21c07.st NCL CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1287468 3' similar to TR-Q13686
11753	24681	38260	8.71	0.0E+00	AA760913.1	EST_HUMAN	nt21c07.st NCL CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1287468 3' similar to TR-Q13686
11758	24686	38266	3.51	0.0E+00	BE910546.1	EST_HUMAN	Q13686 ALKB HOMOLOG PROTEIN.1
11766	23921	37440	5.45	0.0E+00	BE676347.1	EST_HUMAN	712712.x1 NCL CGAP_Q11 Homo sapiens cDNA clone IMAGE:3265919 3' similar to TR-Q00409 ORO409
11769	23924	37443	2.02	0.0E+00	BE615666.1	EST_HUMAN	60127635F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3611144 6'
11769	23924	37444	2.02	0.0E+00	BE615666.1	EST_HUMAN	60127635F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3611144 6'
11777	23932	37453	2.13	0.0E+00	AV757420.1	EST_HUMAN	AV757420 BM Homo sapiens cDNA clone BMFAG-H03 5'
11808	24693	38273	5.01	0.0E+00	L39891.1	NT	Homo sapiens polycystic kidney disease-associated protein (PKD1) gene, complete cds
11808	24693	38274	5.01	0.0E+00	L39891.1	NT	Homo sapiens polycystic kidney disease-associated protein (PKD1) gene, complete cds
11822	24705	38287	3.67	0.0E+00	AI138211.1	EST_HUMAN	AU138211 PLACET Homo sapiens cDNA clone PLACET1008077 5'
11835	24718	38304	5.81	0.0E+00	BE622317.1	EST_HUMAN	601441096F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3916270 5'
11860	24742	38326	2.22	0.0E+00	AI93634.1	EST_HUMAN	tn94c10.x5 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2165778 3'
11869	24750	38332	14.23	0.0E+00	BE748999.1	EST_HUMAN	60157218T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3'
11869	24750	38333	14.23	0.0E+00	BE748999.1	EST_HUMAN	60157218T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3'
11877	24759	38343	2.94	0.0E+00	AI141882.1	EST_HUMAN	AU141882 THYROT1 Homo sapiens cDNA clone THYROT1001398 5'
11877	24759	38344	2.54	0.0E+00	AI141882.1	EST_HUMAN	AU141882 THYROT1 Homo sapiens cDNA clone THYROT1001398 5'
11880	24762	38347	1.97	0.0E+00	AW006022.1	EST_HUMAN	wb21101.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2566225 3' similar to WP-F53H10.2
11882	25707	38349	2.98	0.0E+00	BF002333.1	EST_HUMAN	CE11040 ZINC FINGER, C2H2 TYPE.1
11889	24760	38366	1.48	0.0E+00	AL043705.1	EST_HUMAN	7R22B10.x1 NCL CGAP_Cot16 Homo sapiens cDNA clone IMAGE:3316699 3' similar to TR-Q13458 Q13458 TRIO.1
11899	24760	38366	1.48	0.0E+00	AL043705.1	EST_HUMAN	DKFZp434L1227.1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434L1227 5'

Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11899	24780	38397	1.48	0.0E+00	AL043705.1	EST_HUMAN	DKFZp434L1227.1 434 (synonym: h1ac3) Homo sapiens cDNA clone DKFZp434L1227.5'
11904	24785	38374	3.38	0.0E+00	AW387776.1	EST_HUMAN	MIR4-ST0118-261099-012-603 ST0118 Homo sapiens cDNA
11904	24785	38375	3.36	0.0E+00	AW387776.1	EST_HUMAN	MIR4-ST0118-261099-012-603 ST0118 Homo sapiens cDNA
11916	24797		2.43	0.0E+00	AW593777.1	EST_HUMAN	MIR4-SN0010-310300-107-103 SN0010 Homo sapiens cDNA
11927	24808	38402	4.22	0.0E+00	11485244	NT	Homo sapiens KIA0247 gene product (KIA0247), mRNA
11927	24808	38403	4.22	0.0E+00	11485244	NT	Homo sapiens KIA0247 gene product (KIA0247), mRNA
11932	24813	38409	5.01	0.0E+00	U36253.1	NT	Human beta-prime-actin (BAM22) gene, exon 5
11932	24813	38411	2.03	0.0E+00	BE376254.1	EST_HUMAN	601237691F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609623 5'
11934	24815	38412	2.03	0.0E+00	BE376254.1	EST_HUMAN	601237691F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609623 5'
11946	24855	38419	2.41	0.0E+00	AA211863.1	EST_HUMAN	MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN); a55g11.41 NC1_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:824900 3' similar to gb-M37766 B- LYMPHOCYTE ACTIVATION MARKER BLAST-1 PRECURSOR (HUMAN);
11947	24826	38421	2.36	0.0E+00	AA488884.1	EST_HUMAN	601650588F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944708 5'
11952	24831	38427	2.35	0.0E+00	BE794758.1	EST_HUMAN	601491821F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3694220 5'
11953	24832	38428	160.82	0.0E+00	BE879633.1	EST_HUMAN	601299403F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3629544 5'
11955	24844	38436	12.55	0.0E+00	BE409993.1	EST_HUMAN	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11966	24845	38440	2.25	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11966	24845	38441	2.25	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11967	18547	31580	2.21	0.0E+00	D26535.1	NT	Human gene for dihydropyridine succinyltransferase, complete cds (exon 1-15)
11967	18547	31580	2.21	0.0E+00	D26535.1	NT	Human gene for dihydropyridine succinyltransferase, complete cds (exon 1-15)
11968	24846	38442	4.01	0.0E+00	BF681641.1	EST_HUMAN	602156722F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4268725 5'
11968	24846	38443	4.01	0.0E+00	BF681641.1	EST_HUMAN	602156722F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4268725 5'
11974	18348	31294	1.91	0.0E+00	AF272963.1	NT	Homo sapiens gephyrin mRNA, complete cds
11976	24853	38451	1.57	0.0E+00	AU132940.1	EST_HUMAN	AU132940 NT2P24 Homo sapiens cDNA clone NT2P2400028 5'
11979	24856	38453	4.83	0.0E+00	BE93372.1	EST_HUMAN	601676357F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3658635 5'
11982	24869	38464	3.47	0.0E+00	BF312952.1	EST_HUMAN	601897524F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4127089 5'
11992	24869	38465	3.47	0.0E+00	BF312952.1	EST_HUMAN	601897524F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4127089 5'
11994	24871	38467	34.13	0.0E+00	X61755.1	NT	Human lambda-immunoglobulin constant region complex (germline)
11994	24871	38468	34.13	0.0E+00	X61755.1	NT	Human lambda-immunoglobulin constant region complex (germline)
12008	24883		3.04	0.0E+00	BE060402.1	EST_HUMAN	601468533F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3900386 5'
12007	24884	38479	1.52	0.0E+00	BE892690.1	EST_HUMAN	601433908F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918321 5'
12035	25708		58.85	0.0E+00	BF309120.1	EST_HUMAN	601890534F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131416 5'

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Table 4

Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12037	24912	38505	2.38	0.0E+00	BE598861.1	EST_HUMAN	RCAN00025-120600-016-07 NN0025 Homo sapiens cDNA
12037	24912	38506	2.38	0.0E+00	BE598861.1	EST_HUMAN	RCAN00025-120600-016-07 NN0025 Homo sapiens cDNA
12040	24915	38509	60.15	0.0E+00	BE297175.1	EST_HUMAN	AU1177407F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532988 5'
12048	24921	38517	1.81	0.0E+00	BE744311.1	EST_HUMAN	601676525F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3837222 5'
12048	24921	38518	1.81	0.0E+00	BE744311.1	EST_HUMAN	601676525F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3837222 5'
12062	24935	38531	1.81	0.0E+00	7686505	NT	Homo sapiens myosin, heavy polypeptide 1, skeletal muscle, adult (MYH1), mRNA
12062	24935	38532	1.81	0.0E+00	7686505	NT	Homo sapiens myosin, heavy polypeptide 1, skeletal muscle, adult (MYH1), mRNA
12067	24940	38535	1.66	0.0E+00	11024711	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
12071	24944	38537	2.41	0.0E+00	F00884.1	EST_HUMAN	HSB77E122 STRATAGENE Human skeletal muscle cDNA library, cat. #835215, Homo sapiens cDNA clone 77E12
12071	24944	38538	2.41	0.0E+00	F00884.1	EST_HUMAN	HSB77E122 STRATAGENE Human skeletal muscle cDNA library, cat. #835215, Homo sapiens cDNA clone 77E12
12077	24949	38544	6.48	0.0E+00	BE46535.1	EST_HUMAN	601070391F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3495407 5'
12080	24952	38547	3.24	0.0E+00	AU117974.1	EST_HUMAN	AU117974 HEMBA1 Homo sapiens cDNA clone HEMBA1002612 5'
12080	24952	38548	3.24	0.0E+00	AU117974.1	EST_HUMAN	AU117974 HEMBA1 Homo sapiens cDNA clone HEMBA1002612 5'
12118	24988	38590	2.15	0.0E+00	Z20656.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
12124	24993	38595	2.27	0.0E+00	BE264988.1	EST_HUMAN	601193827F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3537774 5'
12124	24993	38596	2.27	0.0E+00	BE264988.1	EST_HUMAN	601193827F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3537774 5'
12131	25000	38605	6.45	0.0E+00	11419020	NT	Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon (NFKBIE), mRNA
12131	25000	38606	6.45	0.0E+00	11419020	NT	Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon (NFKBIE), mRNA
12148	25072	31269	1.81	0.0E+00	BE312542.1	EST_HUMAN	601150023F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503020 5'
12161	25019	25819	1.43	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21OD46
12163	25028	25828	6.62	0.0E+00	AI1190563.1	EST_HUMAN	qet17b12.x1 Soares, fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:1739231 3'
12173	25022	25822	1.33	0.0E+00	AB011369.1	NT	Homo sapiens gene for AF-6, complete cds
12182	25037	25837	2.28	0.0E+00	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21OD46
12201	25044	25844	5.92	0.0E+00	11417862	NT	Homo sapiens calretinin binding protein 1 (KIA00330), mRNA
12218	25056	25856	3.47	0.0E+00	5802973	NT	Homo sapiens antioxidant protein 1 (AOP1), nuclear gene encoding mitochondrial protein, mRNA
12251	25788	31523	2.06	0.0E+00	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12265	25798	25798	4.42	0.0E+00	AL041831.1	EST_HUMAN	DKF7P434K0819, r1 434 (synonym: hies3) Homo sapiens cDNA clone DKF7P434K0819 5'
12291	25940		3.78	0.0E+00	11418318	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSET1), mRNA
12299	25110		5.98	0.0E+00	AL048544.1	EST_HUMAN	DKF7P434G218, r1 434 (synonym: hies3) Homo sapiens cDNA clone DKF7P434G218 5'

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Table 4
Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF-SEQ ID NO.	Expression Signal	Most Similar (Top Hit) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12314	25834		1.98	0.0E+00	AI903497.1	EST_HUMAN	LB-T0300-271098-001 BT030 Homo sapiens cDNA
12357	25982		1.82	0.0E+00	N54484.1	EST_HUMAN	Y40608.1 Scores fetal liver spleen: INFLS Homo sapiens cDNA clone IMAGE:245222 3' similar to SW4038.BAE/M/P10272 POLYPROTEIN:
12371	25157		5.99	0.0E+00	AF108556.1	NT	Homo sapiens adenylsuccinate lyase gene, complete cds
12374	13900	28857	3.44	0.0E+00	4507500.NT	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
12374	13900	28858	3.44	0.0E+00	4507500.NT	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
12383	25837		2.56	0.0E+00	10062587	NT	Homo sapiens nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 (NFATC2), mRNA
12411	13820		2.52	0.0E+00	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
12504	25767	31521	3.54	0.0E+00	AW590082.1	EST_HUMAN	hg31606.x1 NO1_OGAP_G08 Homo sapiens cDNA clone IMAGE:2947234 3' similar to contains Alu repetitive element; contains element MER22 repetitive element:
12534	25797		1.41	0.0E+00	L20453.1	NT	Human gamma-glutamyl transpeptidase mRNA, complete cds
12561	25831		2.82	0.0E+00	AF008757.1	NT	Homo sapiens somatostatin receptor subtype 3 (SSTR3) gene, 5' flanking region and partial cds
12597	25300		2.72	0.0E+00	9635487	NT	Human endogenous retrovirus, complete genome
12635	25823		1.47	0.0E+00	AI204914.1	EST_HUMAN	ar0804.x1 Stratiotes adizis brain S11 Homo sapiens cDNA clone IMAGE:1894769 3'
12683	15027	28034	1.88	0.0E+00	5912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12683	15027	28035	1.88	0.0E+00	5912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12701	25361	31767	1.52	0.0E+00	AF036365.1	NT	Homo sapiens cavin-3 (CAV3) mRNA, complete cds
12712	14723	27705	4.49	0.0E+00	H30132.1	EST_HUMAN	y56608.1 Scores breast 3N6H-Bat Homo sapiens cDNA clone IMAGE:182246 5' similar to gb:M64099
12712	14723		4.49	0.0E+00	H30132.1	EST_HUMAN	GAMMA-GLUTAMYL TRANSPEPTIDASE 5 PRECURSOR (HUMAN);
12724	25377		52.99	0.0E+00	D50550.1	NT	y56608.1 Scores breast 3N6H-Bat Homo sapiens cDNA clone IMAGE:182246 5' similar to gb:M64099
12725	25378	31743	3.83	0.0E+00	11418180	NT	GAMMA-GLUTAMYL TRANSPEPTIDASE 5 PRECURSOR (HUMAN);
12725	25378	31744	3.83	0.0E+00	11418180	NT	Human gamma-oxaloplasmic acid (ACTG9) pseudogene
12729	15120	28141	2.42	0.0E+00	4758489	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
12780	25415		1.39	0.0E+00	AW584659.1	EST_HUMAN	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
12780	25415		1.39	0.0E+00	AW584659.1	EST_HUMAN	Homo sapiens GTP binding protein 1 (GTPBP1) mRNA
12818	25440	31721	1.51	0.0E+00	BE246780.1	EST_HUMAN	h188908.x1 Scores Pediatric pre-B cell acute lymphoblastic leukemia Bayfor-HGSC project=C8A Homo sapiens TC8AP1E4466
12827	25448		1.55	0.0E+00	11526291	NT	cDNA clone TC8AP1E4466
12849	18338	31287	3.07	0.0E+00	4985312	NT	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
12858	18346	31292	1.88	0.0E+00	6808918	NT	Homo sapiens G protein-coupled receptor 24 (GPR24), mRNA
12863	25466		2.17	0.0E+00	AB028690.1	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12863	25466		2.17	0.0E+00	AB028690.1	NT	Homo sapiens CST gene for ceramidase sulfotransferase, exon 1, 2, 3, 4, 5

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Single Exon Probes Expressed in Bone Marrow

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
129021	25488	31733	2.83	0.0E+00	9558724	NT	Homo sapiens cleavage and polyadenylation specific factor 1, 160kD subunit (GPSF1), mRNA
129271	25684		3.32	0.0E+00	AL182248.2	NT	Homo sapiens chromosome 21 segment HS21C046
129351	13682	28609	2.65	0.0E+00	6808918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12986	14499	27473	1.32	0.0E+00	6912437	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
13018	25568		3.02	0.0E+00	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
13051	25590	31685	1.36	0.0E+00	8567387	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
13082	26613		1.63	0.0E+00	X57147.1	NT	Human endogenous retrovirus pHE.1 (ERV9)
13103	14203	27156	1.4	0.0E+00	9968844	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA

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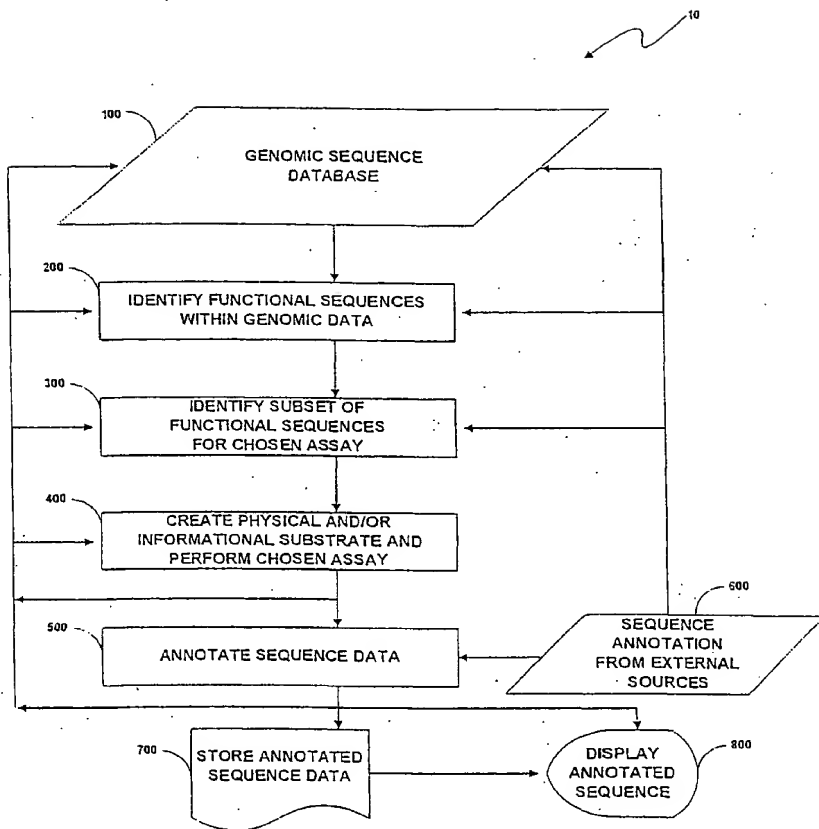


Fig. 1

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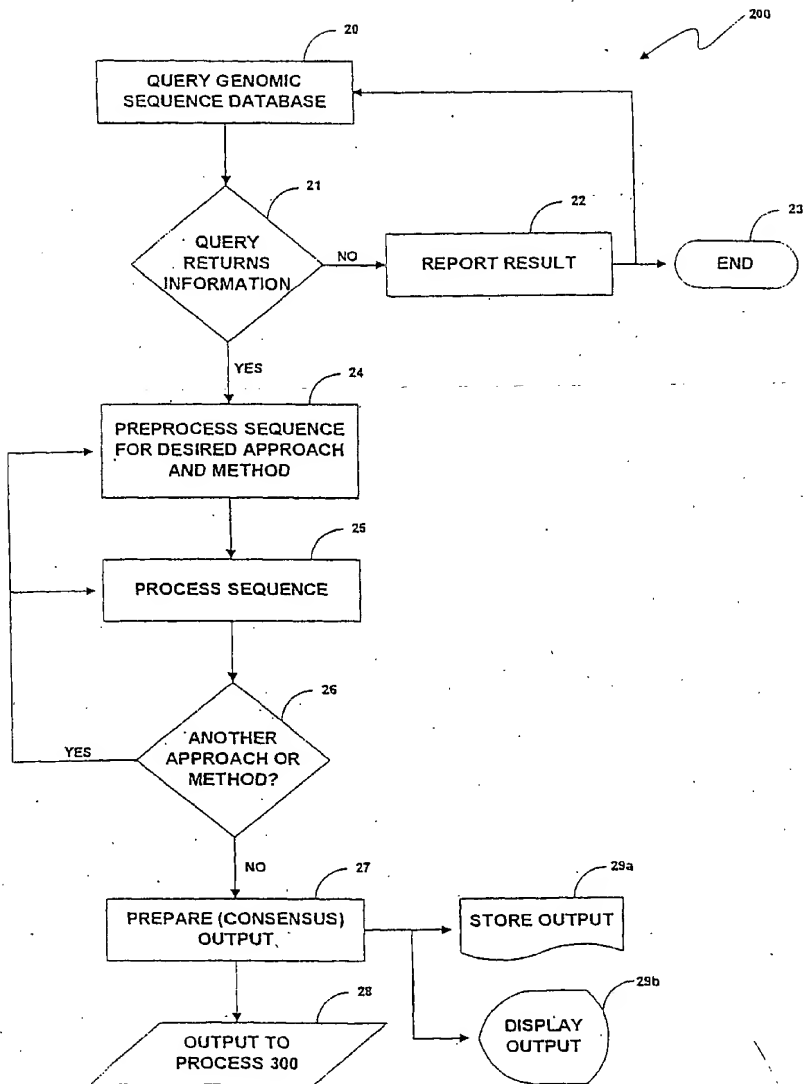
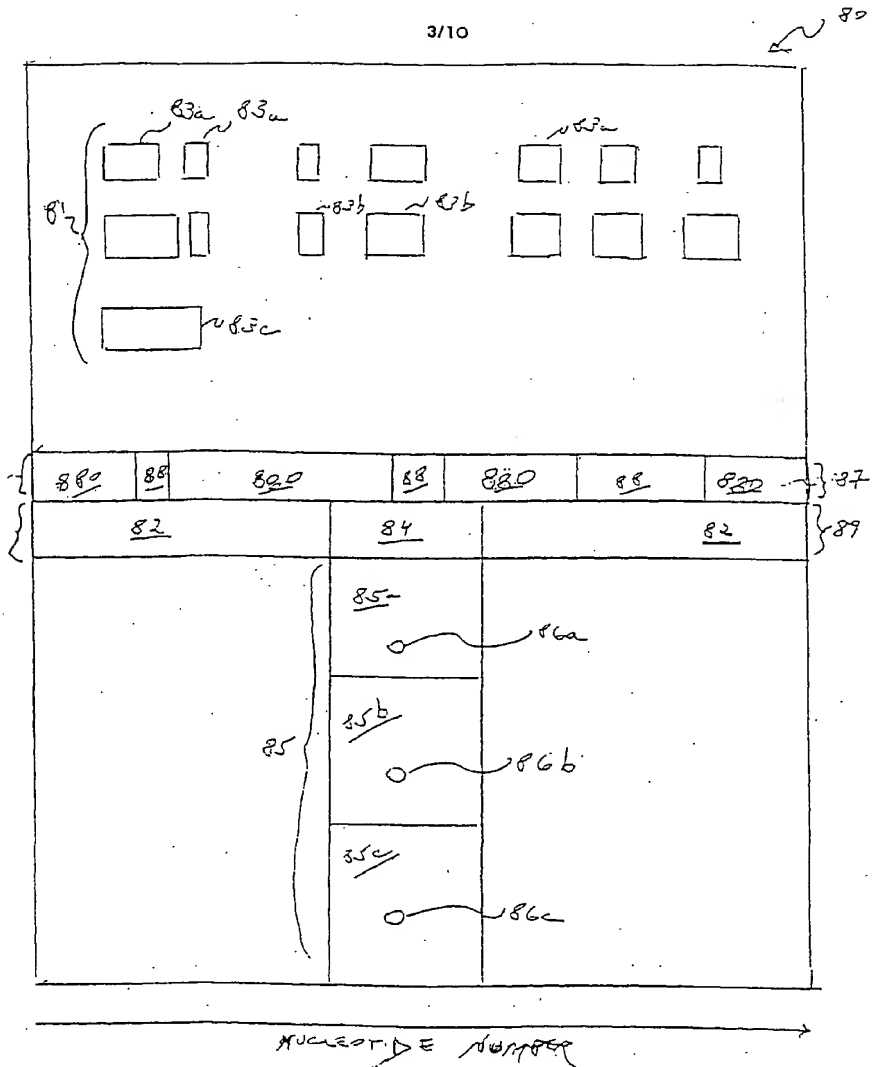


Fig. 2

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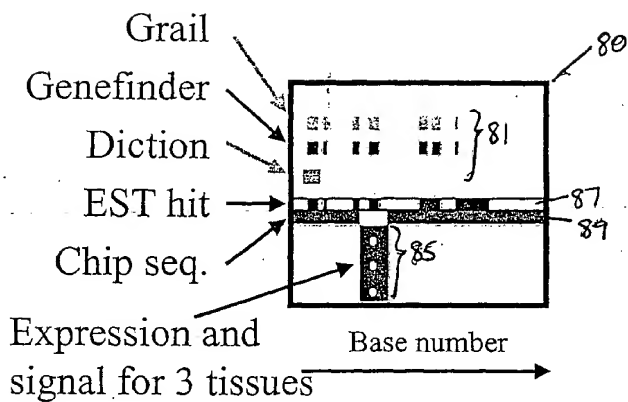


Fig. 4

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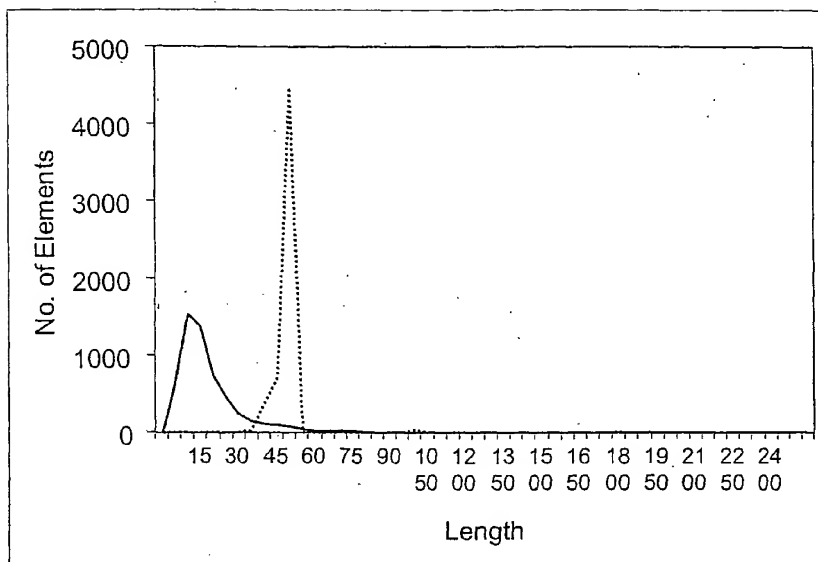


Fig. 5

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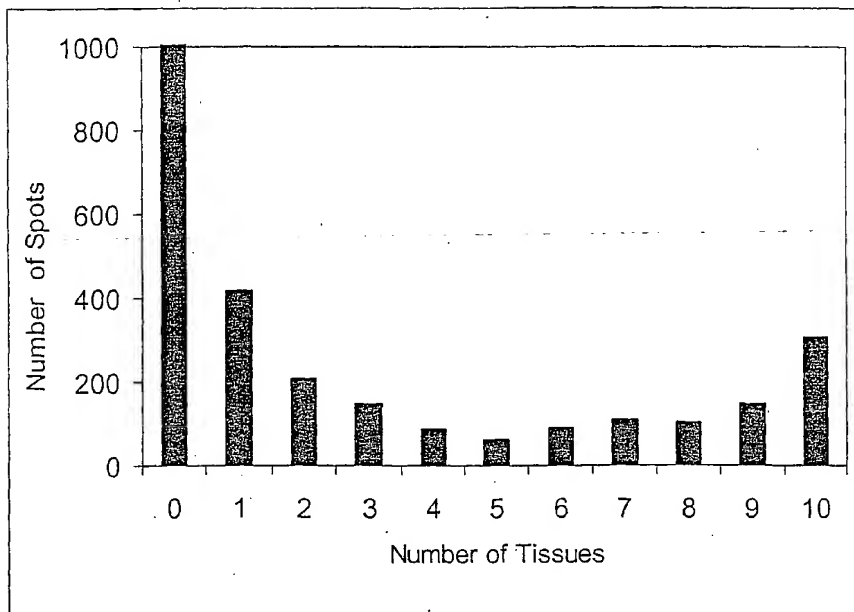


Fig. 6

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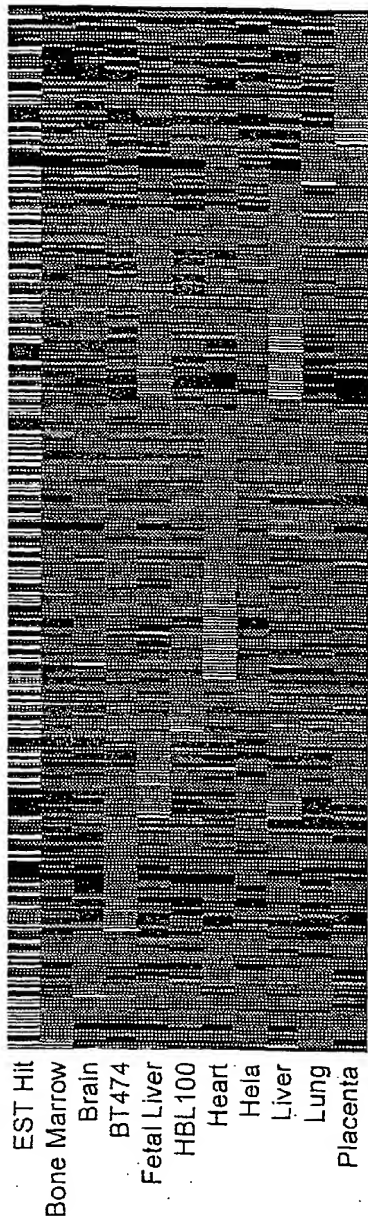


Fig. 7a



Fig. 7b

Fig. 7c

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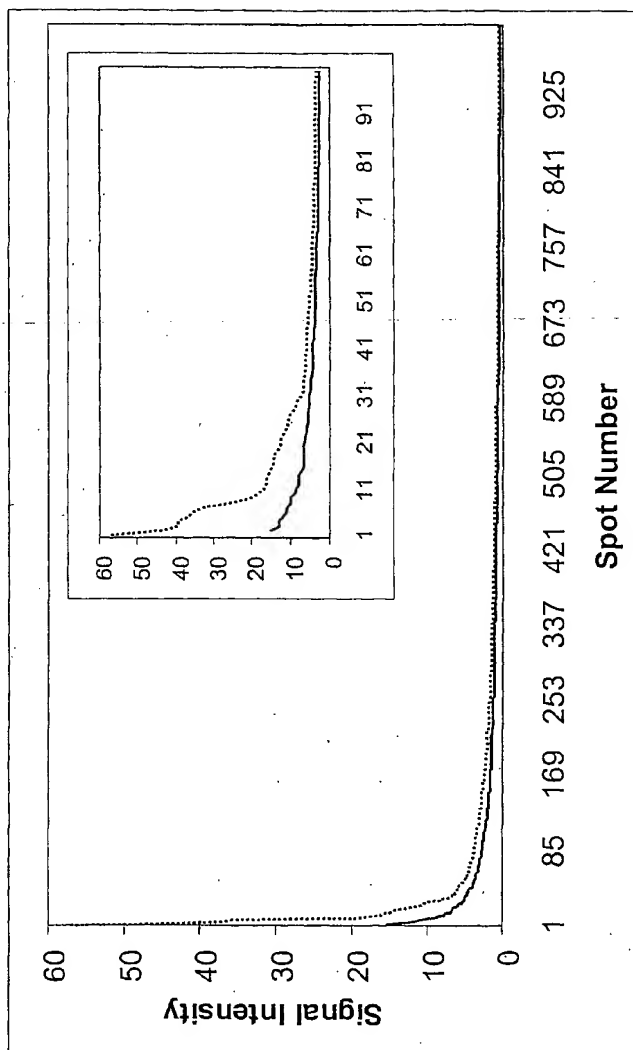


Fig. 8

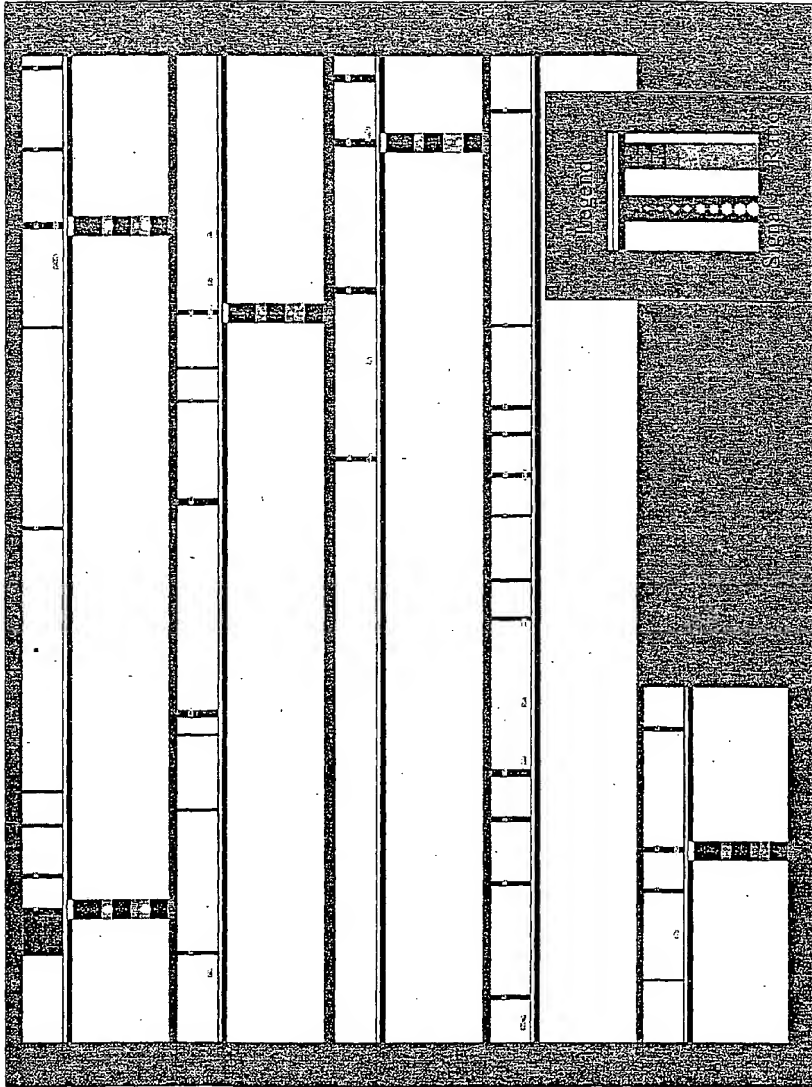


Fig. 9

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Fig. 10

